

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Feder, John N.
Kronmal, Gregory S.
Lauer, Peter M.
Ruddy, David A.
Thomas, Winston
Tsuchihashi, Zenta
Wolff, Roger K.
- (ii) TITLE OF INVENTION: Megabase Transcript Map: Novel Sequences and Antibodies Thereto
- (iii) NUMBER OF SEQUENCES: 31
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: TOWNSEND and TOWNSEND and CREW LLP
 - (B) STREET: Two Embarcadero Center, 8th Floor
 - (C) CITY: San Francisco
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 94111-3834
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/724,394
 - (B) FILING DATE: 01-OCT-1996
 - (C) CLASSIFICATION:
- (vii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Fitts, Renee A.
 - (B) REGISTRATION NUMBER: 35,136
 - (C) REFERENCE/DOCKET NUMBER: 017957-000100
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 415-576-0200
 - (B) TELEFAX: 415-576-0300

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 589 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 1..589
 - (D) OTHER INFORMATION: /note= "BT"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Met Ala Val Phe Pro Ser Ser Gly Leu Pro Arg Cys Leu Xaa Xaa Xaa
 1 5 10 15

Leu Thr Leu Ile Leu Leu Gln Leu Pro Lys Leu Asp Ser Ala Pro Phe
 20 25 30

Asp Val Ile Gly Pro Pro Glu Pro Ile Leu Ala Val Val Gly Glu Asp
 35 40 45

Ala Glu Leu Pro Cys Arg Leu Ser Pro Asn Ala Ser Ala Glu His Leu
 50 55 60

Glu Leu Arg Trp Phe Arg Lys Lys Val Ser Pro Ala Val Leu Val His
 65 70 75 80

Arg Asp Gly Arg Glu Gln Glu Ala Glu Gln Met Pro Glu Tyr Arg Gly
 85 90 95

Arg Ala Thr Leu Val Gln Asp Gly Ile Ala Lys Gly Arg Val Ala Leu
 100 105 110

Arg Ile Arg Gly Val Arg Val Ser Asp Asp Gly Glu Tyr Thr Cys Phe
 115 120 125

Phe Arg Glu Asp Gly Ser Tyr Glu Glu Ala Leu Val His Leu Lys Val
 130 135 140

Ala Ala Leu Gly Ser Asp Pro His Ile Ser Met Gln Val Gln Glu Asn
 145 150 155 160

Gly Glu Ile Cys Leu Glu Cys Thr Ser Val Gly Trp Tyr Pro Glu Pro
 165 170 175

Gln Val Gln Trp Arg Thr Ser Lys Gly Glu Lys Phe Pro Ser Thr Ser
 180 185 190

Glu Ser Arg Asn Pro Asp Glu Glu Gly Leu Phe Thr Val Ala Ala Ser
 195 200 205

Val Ile Ile Arg Asp Thr Ser Thr Lys Asn Val Ser Cys Tyr Ile Gln
 210 215 220

Asn Leu Leu Leu Gly Gln Glu Lys Lys Val Glu Ile Ser Ile Pro Ala
 225 230 235 240

Ser Ser Leu Pro Arg Leu Thr Pro Trp Ile Val Ala Val Ala Val Xaa
 245 250 255

Xaa Ile Leu Met Val
 260 265 270

Leu Gly Leu Leu Thr Ile Gly Ser Ile Phe Phe Thr Trp Arg Leu Tyr
 275 280 285

Asn Glu Arg Xaa Xaa Xaa Xaa Xaa Xaa Xaa Pro Arg Glu Arg Xaa Xaa
 290 295 300

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Arg Asn Glu Phe Ser Xaa Xaa Xaa
 305 310 315 320

Xaa Xaa Xaa Xaa Ser Lys Glu Arg Leu Leu Glu Glu Leu Lys Trp Lys
 325 330 335
 Lys Ala Thr Leu His Ala Xaa
 340 345 350
 Xaa Xaa Xaa Xaa Xaa Xaa Val Asp Val Thr Leu Asp Pro Asp
 355 360 365
 Thr Ala His Pro His Leu Phe Leu Tyr Glu Asp Ser Lys Ser Val Arg
 370 375 380
 Leu Glu Asp Ser Arg Gln Lys Xaa Xaa Xaa Leu Pro Glu Lys Thr Glu
 385 390 395 400
 Arg Phe Asp Ser Trp Pro Cys Val Leu Gly Arg Glu Thr Phe Thr Ser
 405 410 415
 Gly Arg His Tyr Trp Glu Val Glu Val Gly Asp Arg Thr Asp Trp Ala
 420 425 430
 Ile Gly Val Cys Arg Glu Asn Val Met Lys Lys Xaa Gly Phe Asp Pro
 435 440 445
 Met Thr Pro Glu Asn Gly Phe Trp Ala Val Glu Leu Tyr Xaa Gly Asn
 450 455 460
 Gly Tyr Trp Ala Leu Thr Pro Leu Arg Thr Pro Leu Pro Leu Ala Gly
 465 470 475 480
 Pro Pro Arg Arg Val Gly Ile Phe Leu Asp Tyr Glu Ser Gly Asp Ile
 485 490 495
 Ser Phe Tyr Asn Met Asn Asp Gly Ser Asp Ile Tyr Thr Phe Ser Asn
 500 505 510
 Val Thr Phe Ser Gly Pro Leu Arg Phe Phe Cys Leu Trp Ser Ser
 515 520 525
 Gly Lys Lys Pro Leu Thr Ile Cys Pro Ile Ala Asp Gly Pro Glu Arg
 530 535 540
 Val Thr Val Ile Ala Asn Ala Gln Asp Leu Ser Lys Glu Ile Pro Leu
 545 550 555 560
 Ser Pro Met Gly Glu Ser Ala Pro Arg Asp Ala Asp Thr Leu His
 565 570 575
 Ser Lys Leu Ile Pro Thr Gln Pro Ser Gln Gly Ala Pro
 580 585

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 581 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant
- (ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 1..581
- (D) OTHER INFORMATION: /note= "BTF1"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Glu Ser Ala Ala Ala Leu His Phe Ser Arg Pro Ala Ser Xaa Xaa
 1 5 10 15

Xaa Xaa Leu Leu Leu Leu Leu Ser Leu Cys Ala Leu Val Ser Ala
 20 25 30

Gln Phe Ile Val Val Gly Pro Thr Asp Pro Ile Leu Ala Thr Val Gly
 35 40 45

Glu Asn Thr Thr Leu Arg Cys His Leu Ser Pro Glu Lys Asn Ala Glu
 50 55 60

Asp Met Glu Val Arg Trp Phe Arg Ser Gln Phe Ser Pro Ala Val Phe
 65 70 75 80

Val Tyr Lys Gly Gly Arg Glu Arg Thr Glu Glu Gln Met Glu Glu Tyr
 85 90 95

Arg Gly Arg Thr Thr Phe Val Ser Lys Asp Ile Ser Arg Gly Ser Val
 100 105 110

Ala Leu Val Ile His Asn Ile Thr Ala Gln Glu Asn Gly Thr Tyr Arg
 115 120 125

Cys Tyr Phe Gln Glu Gly Arg Ser Tyr Asp Glu Ala Ile Leu His Leu
 130 135 140

Val Val Ala Gly Leu Gly Ser Lys Pro Leu Ile Ser Met Arg Gly His
 145 150 155 160

Glu Asp Gly Gly Ile Arg Leu Glu Cys Ile Ser Arg Gly Trp Tyr Pro
 165 170 175

Lys Pro Leu Thr Val Trp Arg Asp Pro Tyr Gly Gly Val Ala Pro Ala
 180 185 190

Leu Lys Glu Val Ser Met Pro Asp Ala Asp Gly Leu Phe Met Val Thr
 195 200 205

Thr Ala Val Ile Ile Arg Asp Lys Ser Val Arg Asn Met Ser Cys Ser
 210 215 220

Ile Asn Asn Thr Leu Leu Gly Gln Lys Lys Glu Ser Val Ile Phe Ile
 225 230 235 240

Pro Glu Ser Phe Met Pro Ser Val Ser Pro Cys Ala Val Ala Leu Pro
 245 250 255

Xaa Ile Ile Val
 260 265 270

Val Ile Leu Met Ile Pro Ile Ala Val Cys Ile Tyr Trp Ile Asn Lys
 275 280 285

Leu Gln Lys Glu Lys Lys Ile Leu Ser Gly Glu Lys Glu Phe Glu Arg
 290 295 300

Glu Thr Arg Glu Ile Ala Leu Lys Glu Leu Glu Lys Glu Arg Val Gln
 305 310 315 320

Lys Glu Glu Glu Leu Gln Val Lys Glu Lys Leu Gln Glu Glu Leu Arg
 325 330 335

Trp Arg Arg Thr Phe Leu His Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 340 345 350

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val Asp Val Val Leu Asp
 355 360 365

Pro Asp Thr Ala His Pro Asp Leu Phe Leu Ser Glu Asp Arg Arg Ser
 370 375 380

Val Arg Arg Cys Pro Phe Arg His Leu Gly Glu Ser Val Pro Asp Asn
 385 390 395 400

Pro Glu Arg Phe Asp Ser Gln Pro Cys Val Leu Gly Arg Glu Ser Phe
 405 410 415

Ala Ser Gly Lys His Tyr Trp Glu Val Val Glu Asn Val Ile Glu
 420 425 430

Trp Thr Val Gly Val Cys Arg Asp Ser Val Glu Arg Lys Xaa Gly Glu
 435 440 445

Val Leu Leu Ile Pro Gln Asn Gly Phe Trp Thr Leu Glu Met His Xaa
 450 455 460

Lys Gly Gln Tyr Arg Ala Val Ser Ser Pro Asp Arg Ile Leu Pro Leu
 465 470 475 480

Lys Glu Ser Leu Cys Arg Val Gly Val Phe Leu Asp Tyr Glu Ala Gly
 485 490 495

Asp Val Ser Phe Tyr Asn Met Arg Asp Arg Ser His Ile Tyr Thr Cys
 500 505 510

Pro Arg Ser Ala Phe Ser Val Pro Val Arg Phe Phe Arg Leu Gly
 515 520 525

Cys Xaa Glu Asp Ser Pro Ile Phe Ile Cys Pro Ala Leu Thr Gly Ala
 530 535 540

Asn Gly Val Thr Val Pro Xaa
 545 550 555 560

Xaa Xaa Xaa Xaa Xaa Xaa Glu Glu Gly Leu Thr Leu His Arg Val Gly
 565 570 575

Thr His Gln Ser Leu
 580

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 581 amino acids
 - (B) TYPE: amino acid

- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

(A) NAME/KEY: Region

(A) NAME:
(B) LOCATION: 1..581

(B) OTHER INFORMATION: /note= BRI

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1
Met Glu Pro Ala Ala Ala Leu His Phe Ser Leu Pro Ala Ser Leu Leu
5 10 15 Val Ser Ala

Met Glu Pro Ile 1
 1 5
 Leu Leu Leu Leu Leu Leu Leu Ser Leu Cys Ala Leu Val Ser Ala
 20 25 30
 Leu Met Val Gly

Gln Phe Thr 35 40 Glu Lys Asn Ala Glu
 Glu Asn Thr Thr Leu Arg Cys His Leu Ser Pro Glu 55 60
 50 Pro Ala Val Phe

Glu Asn Thr 55
 50 Asp Met Glu Val Arg Trp Phe Arg Ser Gln Phe Ser Pro Ala Val Phe
 65 70 75 80
 Asp Met Glu Glu Tyr

Val Ile -
85 Arg Gly Arg Ile Thr Phe Val Ser Lys Asp Ile Asn Arg Gly Ser Val
Arg Gly Arg Ile Thr Phe Val Ser Lys Asp Ile Asn Arg Gly Ser Val
100 105 110

Arg Ser Ile Tyr Arg
Ala Leu Val Ile His Asn Val Thr Ala Gln Glu Asn Gly Ile Tyr Arg
100 120 125

Ala Leu Val Ile His Asn Val 120
 115
 Cys Tyr Phe Gln Glu Gly Arg Ser Tyr Asp Glu Ala Ile Leu Arg Leu
 135 140

Cys Tyr Phe Gln Glu Gly 135 140
 130 135
 Ile Gly Leu Gly Ser Lys Pro Leu Ile Glu Ile Lys Ala Gl 16
 155

Val Val Ala Gly Leu Gly Ser Lys Pro Leu Ile 145 155 16
 150
 Gly Ser Ile Trp Leu Glu Cys Ile Ser Gly Gly Trp Tyr Pr 175

Glu Asp Gly Ser Ile Trp Leu Glu Cys Ile Ser Val 175
 165 170
 ... Leu Thr Val Trp Arg Asp Pro Tyr Gly Glu Val Val Pro Al
 185 190

Glu Pro Leu Thr Val Trp Arg Asp Pro Tyr Ser 190
 180
 Ile Glu Val Ser Ile Ala Asp Ala Asp Gly Leu Phe Met Val T
 205

Thr Ala Val Ile Ile Arg Asp Lys Tyr Val ... 220
 210 215
 ... Asn Thr Leu Leu Gly Gln Glu Lys Glu Thr Val Ile Phe Ile 240
 235

Val Asn Asn Thr Leu Leu Gly Gin Gln Lys 235
 225 230
 Pro Glu Ser Phe Met Pro Ser Ala Ser Pro Trp Met Val Ala Leu Al 255
 250

Val Ile Leu Thr Ala Ser Pro Trp Met Val Ser Met Thr Val Ile Leu
 260 265 270
 Ala Val Phe Ile Ile Phe Met Ala Val Ser Ile Cys Cys Ile Lys Lys
 275 280 285
 Leu Gln Arg Glu Lys Lys Ile Leu Ser Gly Glu Lys Lys Val Glu Gln
 290 295 300
 Glu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Glu Lys Glu Xaa Xaa Xaa
 305 310 315 320
 Xaa Xaa Xaa Xaa Xaa Xaa Ile Ala Gln Gln Leu Gln Glu Glu Leu Arg
 325 330 335
 Trp Arg Arg Thr Phe Leu His Ala Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 340 345 350
 Xaa Ala Asp Val Val Leu Asp
 355 360 365
 Pro Asp Thr Ala His Pro Glu Leu Phe Leu Ser Glu Asp Arg Arg Ser
 370 375 380
 Val Arg Arg Gly Pro Tyr Arg Gln Arg Xaa Xaa Xaa Val Pro Asp Asn
 385 390 395 400
 Pro Glu Arg Phe Asp Ser Gln Pro Cys Val Leu Gly Trp Glu Ser Phe
 405 410 415
 Ala Ser Gly Lys His Tyr Trp Glu Val Glu Val Glu Asn Val Met Val
 420 425 430
 Trp Thr Val Gly Val Cys Arg His Ser Val Glu Arg Lys Xaa Gly Glu
 435 440 445
 Val Leu Leu Ile Pro Gln Asn Gly Phe Trp Thr Leu Glu Met Phe Xaa
 450 455 460
 Gly Asn Gln Tyr Arg Ala Leu Ser Ser Pro Glu Arg Ile Leu Pro Leu
 465 470 475 480
 Lys Glu Ser Leu Cys Arg Val Gly Val Phe Leu Asp Tyr Glu Ala Gly
 485 490 495
 Asp Val Ser Phe Tyr Asn Met Arg Asp Arg Ser His Ile Tyr Thr Cys
 500 505 510
 Pro Arg Ser Ala Phe Thr Val Pro Val Arg Phe Phe Phe Arg Leu Gly
 515 520 525
 Ser Xaa Asp Asp Ser Pro Ile Phe Ile Cys Pro Ala Leu Thr Gly Ala
 530 535 540
 Ser Gly Val Met Val Pro Xaa
 545 550 555 560
 Xaa Xaa Xaa Xaa Xaa Xaa Glu Glu Gly Leu Lys Leu His Arg Val Gly
 565 570 575
 Thr His Gln Ser Leu
 580

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 540 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 1..540
- (D) OTHER INFORMATION: /note= "BTF5"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Met | Ala | Ser | Phe | Leu | Ala | Phe | Leu | Leu | Leu | Asn | Phe | Arg | Xaa |
| 1 | | | | | 5 | | | | 10 | | | | | 15 | |
| Xaa | Xaa | Val | Cys | Leu | Leu | Leu | Gln | Leu | Leu | Leu | Met | Pro | His | Ser | Ala |
| | | | | 20 | | | | 25 | | | | | 30 | | |
| Gln | Phe | Ser | Val | Leu | Gly | Pro | Ser | Gly | Pro | Ile | Leu | Ala | Met | Val | Gly |
| | | | | 35 | | | 40 | | | | | | 45 | | |
| Glu | Asp | Ala | Asp | Leu | Pro | Cys | His | Leu | Phe | Pro | Thr | Met | Ser | Ala | Glu |
| | | | | 50 | | | 55 | | | | | | 60 | | |
| Thr | Met | Glu | Leu | Lys | Trp | Val | Ser | Ser | Ser | Leu | Arg | Gln | Val | Val | Asn |
| | 65 | | | | 70 | | | | 75 | | | | 80 | | |
| Val | Tyr | Ala | Asp | Gly | Lys | Glu | Val | Glu | Asp | Arg | Gln | Ser | Ala | Pro | Tyr |
| | | | | 85 | | | 90 | | | | | | 95 | | |
| Arg | Gly | Arg | Thr | Ser | Ile | Leu | Arg | Asp | Gly | Ile | Thr | Ala | Gly | Lys | Ala |
| | | | | 100 | | | 105 | | | | | | 110 | | |
| Ala | Leu | Arg | Ile | His | Asn | Val | Thr | Ala | Ser | Asp | Ser | Gly | Lys | Tyr | Leu |
| | | | | 115 | | | 120 | | | | | | 125 | | |
| Cys | Tyr | Phe | Gln | Asp | Gly | Asp | Phe | Tyr | Glu | Lys | Ala | Leu | Val | Glu | Leu |
| | | | | 130 | | | 135 | | | | | | 140 | | |
| Lys | Val | Ala | Ala | Leu | Gly | Ser | Asp | Leu | His | Val | Asp | Val | Lys | Gly | Tyr |
| | 145 | | | | 150 | | | | 155 | | | | | 160 | |
| Lys | Asp | Gly | Gly | Ile | His | Leu | Glu | Cys | Arg | Ser | Thr | Gly | Trp | Tyr | Pro |
| | | | | 165 | | | 170 | | | | | | 175 | | |
| Gln | Pro | Gln | Ile | Gln | Trp | Ser | Asn | Asn | Lys | Gly | Glu | Asn | Ile | Pro | Thr |
| | | | | 180 | | | 185 | | | | | | 190 | | |
| Val | Glu | Ala | Pro | Val | Val | Ala | Asp | Gly | Val | Gly | Leu | Tyr | Ala | Val | Ala |
| | | | | 195 | | | 200 | | | | | | 205 | | |
| Ala | Ser | Val | Ile | Met | Arg | Gly | Ser | Ser | Gly | Glu | Gly | Val | Ser | Cys | Thr |
| | | | | 210 | | | 215 | | | | | | 220 | | |
| Ile | Arg | Ser | Ser | Leu | Leu | Gly | Leu | Glu | Lys | Thr | Ala | Ser | Ile | Ser | Ile |

| | | | |
|-----------------------------------------------------------------|-----|-----|-----|
| 225 | 230 | 235 | 240 |
| Ala Asp Pro Phe Phe Arg Ser Ala Gln Arg Trp Ile Ala Ala Leu Ala | | | |
| 245 | 250 | 255 | |
| Arg Xaa Thr Leu | | | |
| 260 | 265 | 270 | |
| Pro Val Leu Leu Leu Leu Gly Gly Ala Gly Tyr Phe Leu Trp Gln | | | |
| 275 | 280 | 285 | |
| Gln Gln Glu Glu Lys Lys Thr Gln Phe Arg Lys Lys Lys Arg Glu Gln | | | |
| 290 | 295 | 300 | |
| Glu Leu Arg Glu Met Ala Trp Ser Thr Met Lys Gln Glu Gln Ser Xaa | | | |
| 305 | 310 | 315 | 320 |
| Xaa Xaa Xaa Xaa Xaa Xaa Thr Arg Val Lys Leu Leu Glu Glu Leu Arg | | | |
| 325 | 330 | 335 | |
| Trp Arg Ser Ile Gln Tyr Ala Ser Arg Gly Glu Arg His Ser Ala Tyr | | | |
| 340 | 345 | 350 | |
| Asn Glu Trp Lys Lys Ala Leu Phe Lys Pro Ala Asp Val Ile Leu Asp | | | |
| 355 | 360 | 365 | |
| Pro Lys Thr Ala Asn Pro Ile Leu Leu Val Ser Glu Asp Gln Arg Ser | | | |
| 370 | 375 | 380 | |
| Val Gln Arg Ala Lys Glu Pro Gln Asp Xaa Xaa Xaa Leu Pro Asp Asn | | | |
| 385 | 390 | 395 | 400 |
| Pro Glu Arg Phe Asn Trp His Tyr Cys Val Leu Gly Cys Glu Ser Phe | | | |
| 405 | 410 | 415 | |
| Ile Ser Gly Arg His Tyr Trp Glu Val Glu Val Gly Asp Arg Lys Glu | | | |
| 420 | 425 | 430 | |
| Trp His Ile Gly Val Cys Ser Lys Asn Val Gln Arg Lys Xaa Gly Trp | | | |
| 435 | 440 | 445 | |
| Val Lys Met Thr Pro Glu Asn Gly Phe Trp Thr Met Gly Leu Thr Asp | | | |
| 450 | 455 | 460 | |
| Gly Asn Lys Tyr Arg Thr Leu Thr Glu Pro Arg Thr Asn Leu Lys Leu | | | |
| 465 | 470 | 475 | 480 |
| Pro Lys Pro Pro Lys Lys Val Gly Val Phe Leu Asp Tyr Glu Thr Gly | | | |
| 485 | 490 | 495 | |
| Asp Ile Ser Phe Tyr Asn Ala Val Asp Gly Ser His Ile His Thr Phe | | | |
| 500 | 505 | 510 | |
| Leu Asp Val Ser Phe Ser Glu Ala Leu Tyr Phe Val Phe Arg Ile Leu | | | |
| 515 | 520 | 525 | |
| Thr Leu Glu Pro Thr Ala Leu Ser Ile Cys Pro Ala | | | |
| 530 | 535 | 540 | |

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 610 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 1..610
- (D) OTHER INFORMATION: /note= "BTF3"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Met | Ala | Ser | Ser | Leu | Ala | Phe | Leu | Leu | Leu | Asn | Phe | His | Xaa |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Xaa | Xaa | Val | Ser | Leu | Phe | Leu | Val | Gln | Leu | Leu | Thr | Pro | Cys | Ser | Ala |
| | | 20 | | | | | 25 | | | | | | 30 | | |
| Gln | Phe | Ser | Val | Leu | Gly | Pro | Ser | Gly | Pro | Ile | Leu | Ala | Met | Val | Gly |
| | 35 | | | | | 40 | | | | | | | 45 | | |
| Glu | Asp | Ala | Asp | Leu | Pro | Cys | His | Leu | Phe | Pro | Thr | Met | Ser | Ala | Glu |
| | 50 | | | | 55 | | | | | | | | 60 | | |
| Thr | Met | Glu | Leu | Arg | Trp | Val | Ser | Ser | Leu | Arg | Gln | Val | Val | Asn | |
| | 65 | | | | 70 | | | | 75 | | | | 80 | | |
| Val | Tyr | Ala | Asp | Gly | Lys | Glu | Val | Glu | Asp | Arg | Gln | Ser | Ala | Pro | Tyr |
| | | 85 | | | | 90 | | | | | | | 95 | | |
| Arg | Gly | Arg | Thr | Ser | Ile | Leu | Arg | Asp | Gly | Ile | Thr | Ala | Gly | Lys | Ala |
| | | 100 | | | | 105 | | | | | | | 110 | | |
| Ala | Leu | Arg | Ile | His | Asn | Val | Thr | Ala | Ser | Asp | Ser | Gly | Lys | Tyr | Leu |
| | 115 | | | | | 120 | | | | | | | 125 | | |
| Cys | Tyr | Phe | Gln | Asp | Gly | Asp | Phe | Tyr | Glu | Lys | Ala | Leu | Val | Glu | Leu |
| | 130 | | | | 135 | | | | | | | | 140 | | |
| Lys | Val | Ala | Ala | Leu | Gly | Ser | Asp | Leu | His | Ile | Glu | Val | Lys | Gly | Tyr |
| | 145 | | | | | 150 | | | 155 | | | | 160 | | |
| Glu | Asp | Gly | Gly | Ile | His | Leu | Glu | Cys | Arg | Ser | Thr | Gly | Trp | Tyr | Pro |
| | | 165 | | | | | 170 | | | | | | 175 | | |
| Gln | Pro | Gln | Ile | Lys | Trp | Ser | Asp | Thr | Lys | Gly | Glu | Asn | Ile | Pro | Ala |
| | | 180 | | | | 185 | | | | | | | 190 | | |
| Val | Glu | Ala | Pro | Val | Val | Ala | Asp | Gly | Val | Gly | Leu | Tyr | Ala | Val | Ala |
| | 195 | | | | 200 | | | | | | | 205 | | | |
| Ala | Ser | Val | Ile | Met | Arg | Gly | Ser | Ser | Gly | Gly | Val | Ser | Cys | Ile | |
| | 210 | | | | 215 | | | | | | | 220 | | | |
| Ile | Arg | Asn | Ser | Leu | Leu | Gly | Leu | Glu | Lys | Thr | Ala | Ser | Ile | Ser | Ile |
| | 225 | | | | | 230 | | | | 235 | | | 240 | | |
| Ala | Asp | Pro | Phe | Phe | Arg | Ser | Ala | Gln | Pro | Trp | Ile | Ala | Leu | Ala | |

| 245 | 250 | 255 |
|-----------------------------------------------------------------|-----|---------|
| Gly Xaa | | Thr Leu |
| 260 | 265 | 270 |
| Pro Ile Ser Leu Leu Leu Ala Gly Ala Ser Tyr Phe Leu Trp Arg | | |
| 275 | 280 | 285 |
| Gln Gln Lys Glu Lys Ile Ala Leu Ser Arg Glu Thr Glu Arg Glu Arg | | |
| 290 | 295 | 300 |
| Glu Met Lys Glu Met Gly Tyr Ala Ala Thr Glu Gln Glu Ile Ser Xaa | | |
| 305 | 310 | 320 |
| Xaa Xaa Xaa Xaa Xaa Xaa Leu Arg Glu Lys Leu Gln Glu Glu Leu Lys | | |
| 325 | 330 | 335 |
| Trp Arg Lys Ile Gln Tyr Met Ala Arg Gly Glu Lys Ser Leu Ala Tyr | | |
| 340 | 345 | 350 |
| His Glu Trp Lys Met Ala Leu Phe Lys Pro Ala Asp Val Ile Leu Asp | | |
| 355 | 360 | 365 |
| Pro Asp Thr Ala Asn Ala Ile Leu Leu Val Ser Glu Asp Gln Arg Ser | | |
| 370 | 375 | 380 |
| Val Gln Arg Ala Glu Glu Pro Arg Asp Xaa Xaa Xaa Leu Pro Asp Asn | | |
| 385 | 390 | 395 |
| Pro Glu Arg Phe Glu Trp Arg Tyr Cys Val Leu Gly Cys Glu Asn Phe | | |
| 405 | 410 | 415 |
| Thr Ser Gly Arg His Tyr Trp Glu Val Glu Val Gly Asp Arg Lys Glu | | |
| 420 | 425 | 430 |
| Trp His Ile Gly Val Cys Ser Lys Asn Val Glu Arg Lys Lys Gly Trp | | |
| 435 | 440 | 445 |
| Val Lys Met Thr Pro Glu Asn Gly Tyr Trp Thr Met Gly Leu Thr Asp | | |
| 450 | 455 | 460 |
| Gly Asn Lys Tyr Arg Ala Leu Thr Glu Pro Arg Thr Asn Leu Lys Leu | | |
| 465 | 470 | 480 |
| Pro Glu Pro Pro Arg Lys Val Gly Ile Phe Leu Asp Tyr Glu Thr Gly | | |
| 485 | 490 | 495 |
| Glu Ile Ser Phe Tyr Asn Ala Thr Asp Gly Ser His Ile Tyr Thr Phe | | |
| 500 | 505 | 510 |
| Pro His Ala Ser Phe Ser Glu Pro Leu Tyr Phe Val Phe Arg Ile Leu | | |
| 515 | 520 | 525 |
| Thr Leu Glu Pro Thr Ala Leu Thr Ile Cys Pro Ile Pro Lys Glu Val | | |
| 530 | 535 | 540 |
| Glu Ser Ser Pro Asp Pro Asp Leu Val Pro Asp His Ser Leu Glu Thr | | |
| 545 | 550 | 555 |
| Pro Leu Thr Pro Gly Leu Ala Asn Glu Ser Gly Glu Pro Gln Ala Glu | | |
| 565 | 570 | 575 |

Val Thr Ser Leu Leu Leu Pro Ala His Pro Gly Ala Glu Val Ser Pro
 580 585 590

Ser Ala Thr Thr Asn Gln Asn His Lys Leu Gln Ala Arg Thr Glu Ala
 595 600 605

Leu Tyr
 610

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 1..342
- (D) OTHER INFORMATION: /note= "BTF4"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Met Lys Met Ala Ser Ser Leu Ala Phe Leu Leu Leu Asn Phe His Xaa
 1 5 10 15

Xaa Xaa Val Ser Leu Leu Leu Val Gln Leu Leu Thr Pro Cys Ser Ala
 20 25 30

Gln Phe Ser Val Leu Gly Pro Ser Gly Pro Ile Leu Ala Met Val Gly
 35 40 45

Glu Asp Ala Asp Leu Pro Cys His Leu Phe Pro Thr Met Ser Ala Glu
 50 55 60

Thr Met Glu Leu Lys Trp Val Ser Ser Ser Leu Arg Gln Val Val Asn
 65 70 75 80

Val Tyr Ala Asp Gly Lys Glu Val Glu Asp Arg Gln Ser Ala Pro Tyr
 85 90 95

Arg Gly Arg Thr Ser Ile Leu Arg Asp Gly Ile Thr Ala Gly Lys Ala
 100 105 110

Ala Leu Arg Ile His Asn Val Thr Ala Ser Asp Ser Gly Lys Tyr Leu
 115 120 125

Cys Tyr Phe Gln Asp Gly Asp Phe Tyr Glu Lys Ala Leu Val Glu Leu
 130 135 140

Lys Val Ala Ala Leu Gly Ser Asn Leu His Val Glu Val Lys Gly Tyr
 145 150 155 160

Glu Asp Gly Gly Ile His Leu Glu Cys Arg Ser Thr Gly Trp Tyr Pro
 165 170 175

Gln Pro Gln Ile Gln Trp Ser Asn Ala Lys Gly Glu Asn Ile Pro Ala

| | | |
|---------------------------------------------------------------------|-----|-----|
| 180 | 185 | 190 |
| Val Glu Ala Pro Val Val Ala Asp Gly Val Gly Leu Tyr Glu Val Ala | | |
| 195 | 200 | 205 |
| Ala Ser Val Ile Met Arg Gly Gly Ser Gly Glu Gly Val Ser Cys Ile | | |
| 210 | 215 | 220 |
| Ile Arg Asn Ser Leu Leu Gly Leu Glu Lys Thr Ala Ser Ile Ser Ile | | |
| 225 | 230 | 235 |
| Ala Asp Pro Phe Phe Arg Ser Ala Gln Pro Trp Ile Ala Ala Leu Ala | | |
| 245 | 250 | 255 |
| Gly Xaa Thr Leu | | |
| 260 | 265 | 270 |
| Pro Ile Leu Leu Leu Leu Ala Gly Ala Ser Tyr Phe Leu Trp Arg | | |
| 275 | 280 | 285 |
| Gln Gln Lys Glu Ile Thr Ala Leu Ser Ser Glu Ile Glu Ser Glu Gln | | |
| 290 | 295 | 300 |
| Glu Met Lys Glu Met Gly Tyr Ala Ala Thr Glu Arg Glu Ile Ser Xaa | | |
| 305 | 310 | 315 |
| Xaa Xaa Xaa Xaa Xaa Xaa Leu Arg Glu Ser Leu Gln Glu Glu Leu Lys | | |
| 325 | 330 | 335 |
| Arg Lys Lys Ser Ser Thr | | |
| 340 | | |

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 487 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 1..487
- (D) OTHER INFORMATION: /note= "52 kD Ro"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

| | | |
|-----------------------------------------------------------------|----|----|
| Met Ala Ser Ala Ala Arg Leu Thr Met Met Trp Glu Glu Val Thr Cys | | |
| 1 | 5 | 10 |
| Pro Ile Cys Leu Asp Pro Phe Val Glu Pro Val Ser Ile Glu Cys Gly | | |
| 20 | 25 | 30 |
| His Ser Phe Cys Gln Glu Cys Ile Ser Gln Val Gly Lys Gly Gly Gly | | |
| 35 | 40 | 45 |
| Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val Cys Pro Val Cys Arg Gln | | |
| 50 | 55 | 60 |

Arg Phe Leu Leu Lys Asn Leu Arg Pro Asn Arg Gln Leu Ala Asn Met
 65 70 75 80
 Val Asn Asn Leu Lys Glu Ile Ser Gln Glu Ala Arg Glu Gly Thr Gln
 85 90 95
 Gly Glu Arg Cys Ala Val His Gly Glu Arg Leu His Leu Phe Cys Glu
 100 105 110
 Lys Asp Gly Lys Ala Leu Cys Trp Val Cys Ala Gln Ser Arg Lys His
 115 120 125
 Arg Asp His Ala Met Val Pro Leu Glu Glu Ala Ala Gln Glu Tyr Gln
 130 135 140
 Glu Lys Leu Gln Val Ala Leu Gly Glu Leu Arg Arg Lys Gln Glu Leu
 145 150 155 160
 Ala Glu Lys Leu Glu Val Glu Ile Ala Ile Lys Arg Ala Asp Trp Lys
 165 170 175
 Lys Thr Val Glu Thr Gln Lys Ser Arg Ile His Ala Glu Phe Val Gln
 180 185 190
 Gln Lys Asn Phe Leu Val Glu Glu Gln Arg Gln Leu Gln Glu Leu
 195 200 205
 Glu Lys Asp Glu Arg Glu Gln Leu Arg Ile Leu Gly Glu Lys Glu Ala
 210 215 220
 Lys Leu Ala Gln Gln Ser Gln Ala Leu Gln Glu Leu Ile Ser Glu Leu
 225 230 235 240
 Asp Arg Arg Cys His Ser Ser Ala Leu Glu Leu Leu Gln Glu Val Ile
 245 250 255
 Ile Val Leu Glu Arg Ser Glu Ser Trp Asn Leu Lys Asp Leu Asp Ile
 260 265 270
 Thr Ser Pro Glu Leu Arg Ser Val Cys His Val Pro Xaa Xaa Xaa Xaa
 275 280 285
 Gly Leu Lys Lys Met Leu Arg Thr Cys Ala Val His Ile Thr Leu Asp
 290 295 300
 Pro Asp Thr Ala Asn Pro Trp Leu Ile Leu Ser Glu Asp Arg Arg Gln
 305 310 315 320
 Val Arg Leu Gly Asp Thr Gln Gln Ser Ile Pro Gly Asn Glu Glu Arg
 325 330 335
 Phe Asp Ser Tyr Pro Met Val Leu Gly Ala Gln His Phe His Ser Gly
 340 345 350
 Lys His Tyr Trp Glu Val Asp Val Thr Gly Lys Glu Ala Trp Asp Leu
 355 360 365
 Gly Val Cys Arg Asp Ser Val Arg Arg Lys Gly His Phe Leu Leu Ser
 370 375 380
 Ser Lys Ser Gly Phe Trp Thr Ile Trp Leu Trp Asn Lys Gln Lys Tyr
 385 390 395 400

Glu Ala Gly Thr Tyr Pro Gln Thr Pro Leu His Leu Gln Val Pro Pro
 405 410 415
 Cys Gln Val Gly Ile Phe Leu Asp Tyr Glu Ala Gly Met Val Ser Phe
 420 425 430
 Tyr Asn Ile Thr Asp His Gly Ser Leu Ile Tyr Ser Phe Ser Glu Cys
 435 440 445
 Ala Phe Thr Gly Pro Leu Arg Pro Phe Phe Ser Pro Gly Phe Asn Asp
 450 455 460
 Gly Gly Lys Asn Thr Ala Pro Leu Thr Leu Cys Pro Leu Asn Ile Gly
 465 470 475 480
 Ser Gln Gly Ser Thr Asp Tyr
 485

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 485 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Region
 - (B) LOCATION: 1..485
 - (D) OTHER INFORMATION: /note= "RoRet"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Met Ala Ser Thr Thr Ser Thr Lys Lys Met Met Glu Glu Ala Thr Cys
 1 5 10 15
 Ser Ile Cys Leu Ser Leu Met Thr Asn Pro Val Ser Ile Asn Cys Gly
 20 25 30
 His Ser Tyr Cys His Leu Cys Ile Thr Asp Phe Phe Lys Asn Pro Ser
 35 40 45
 Gln Lys Gln Leu Arg Gln Glu Thr Phe Cys Cys Pro Gln Cys Arg Ala
 50 55 60
 Pro Phe His Met Asp Ser Leu Arg Pro Asn Lys Gln Leu Gly Ser Leu
 65 70 75 80
 Ile Glu Ala Leu Lys Glu Thr Asp Gln Glu Met Xaa Xaa Xaa Xaa
 85 90 95
 Xaa Xaa Ser Cys Glu Glu His Gly Glu Gln Phe His Leu Phe Cys Glu
 100 105 110
 Asp Glu Gly Gln Leu Ile Cys Trp Arg Cys Glu Arg Ala Pro Gln His
 115 120 125
 Lys Gly His Thr Thr Ala Leu Val Glu Asp Val Cys Gln Gly Tyr Lys

| | | |
|-----------------------------------------------------------------|-----|-----|
| 130 | 135 | 140 |
| Glu Lys Leu Gln Lys Ala Val Thr Lys Leu Lys Gln Leu Glu Asp Arg | | |
| 145 | 150 | 155 |
| Cys Thr Glu Gln Lys Leu Ser Thr Ala Met Arg Ile Thr Lys Trp Lys | | |
| 165 | 170 | 175 |
| Glu Lys Val Gln Ile Gln Arg Gln Lys Ile Arg Ser Asp Phe Lys Asn | | |
| 180 | 185 | 190 |
| Leu Gln Cys Phe Leu His Glu Glu Lys Ser Tyr Leu Trp Arg Leu | | |
| 195 | 200 | 205 |
| Glu Lys Glu Glu Gln Gln Thr Leu Ser Arg Leu Arg Asp Tyr Glu Ala | | |
| 210 | 215 | 220 |
| Gly Leu Gly Leu Lys Ser Asn Glu Leu Lys Ser His Ile Leu Glu Leu | | |
| 225 | 230 | 235 |
| 240 | | |
| Glu Glu Lys Cys Gln Gly Ser Ala Gln Lys Leu Leu Gln Asn Val Asn | | |
| 245 | 250 | 255 |
| Asp Thr Leu Ser Arg Ser Trp Ala Val Lys Leu Glu Thr Ser Glu Ala | | |
| 260 | 265 | 270 |
| Val Ser Leu Glu Leu His Thr Met Cys Asn Val Ser Lys Leu Tyr Phe | | |
| 275 | 280 | 285 |
| Asp Val Lys Lys Met Leu Arg Ser His Gln Val Ser Val Thr Leu Asp | | |
| 290 | 295 | 300 |
| Pro Asp Thr Ala His His Glu Leu Ile Leu Ser Glu Asp Arg Arg Gln | | |
| 305 | 310 | 315 |
| 320 | | |
| Val Thr Arg Gly Tyr Thr Gln Glu Asn Gln Asp Thr Ser Ser Arg Arg | | |
| 325 | 330 | 335 |
| Phe Thr Ala Phe Pro Cys Val Leu Gly Cys Glu Gly Phe Thr Ser Gly | | |
| 340 | 345 | 350 |
| Arg Arg Tyr Phe Glu Val Asp Val Gly Glu Gly Thr Gly Trp Asp Leu | | |
| 355 | 360 | 365 |
| Gly Val Cys Met Glu Asn Val Gln Arg Gly Thr Gly Met Lys Gln Glu | | |
| 370 | 375 | 380 |
| Pro Gln Ser Gly Phe Trp Thr Leu Arg Leu Cys Lys Lys Lys Gly Tyr | | |
| 385 | 390 | 395 |
| 400 | | |
| Val Ala Leu Thr Ser Pro Pro Thr Ser Leu His Leu His Glu Gln Pro | | |
| 405 | 410 | 415 |
| Leu Leu Val Gly Ile Phe Leu Asp Tyr Glu Ala Gly Val Val Ser Phe | | |
| 420 | 425 | 430 |
| Tyr Asn Gly Xaa Asn Thr Gly Cys His Ile Phe Thr Phe Pro Lys Ala | | |
| 435 | 440 | 445 |
| Ser Phe Ser Asp Thr Leu Arg Pro Tyr Phe Gln Val Tyr Gln Tyr Ser | | |
| 450 | 455 | 460 |

Xaa Xaa Xaa Xaa Xaa Xaa Pro Leu Phe Leu Pro Pro Pro Pro Xaa Xaa Gly
 465 470 475 480

Xaa Xaa Xaa Xaa Asp
 485

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 480 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 1..480
- (D) OTHER INFORMATION: /note= "NPT1"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Met Gln Met Asp Asn Arg Leu Pro Pro Lys Lys Val Pro Gly Phe Cys
 1 5 10 15

Ser Phe Arg Tyr Gly Leu Ser Phe Leu Val His Cys Cys Asn Val Ile
 20 25 30

Ile Thr Ala Gln Arg Ala Cys Leu Asn Leu Thr Met Val Val Met Val
 35 40 45

Asn Ser Thr Asp Pro His Gly Leu Pro Asn Thr Ser Thr Lys Lys Leu
 50 55 60

Leu Asp Asn Ile Lys Asn Xaa
 65 70 75 80

Xaa Xaa Xaa Pro Met Tyr Asn Trp Ser Pro Asp Ile Gln Gly Ile Ile
 85 90 95

Leu Ser Ser Thr Ser Tyr Gly Val Ile Ile Ile Gln Val Pro Val Gly
 100 105 110

Tyr Phe Ser Gly Ile Tyr Ser Thr Lys Lys Met Ile Gly Phe Ala Leu
 115 120 125

Cys Leu Ser Ser Val Leu Ser Leu Leu Ile Pro Pro Ala Ala Gly Ile
 130 135 140

Gly Val Ala Trp Val Val Cys Arg Ala Val Gln Gly Ala Ala Gln
 145 150 155 160

Gly Ile Val Ala Thr Ala Gln Phe Glu Ile Tyr Val Lys Trp Ala Pro
 165 170 175

Pro Leu Glu Arg Gly Arg Leu Thr Ser Met Ser Thr Ser Gly Phe Leu
 180 185 190

Leu Gly Pro Phe Ile Val Leu Leu Val Thr Gly Val Ile Cys Glu Ser

| 195 | 200 | 205 | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Gly | Trp | Pro | Met | Val | Phe | Tyr | Ile | Phe | Gly | Ala | Cys | Gly | Cys | Ala |
| 210 | | | | | 215 | | | | | 220 | | | | | |
| Val | Cys | Leu | Leu | Trp | Phe | Val | Leu | Phe | Tyr | Asp | Asp | Pro | Lys | Asp | His |
| 225 | | | | | 230 | | | | 235 | | | | | | 240 |
| Pro | Cys | Ile | Ser | Ile | Ser | Glu | Lys | Glu | Tyr | Ile | Thr | Ser | Ser | Leu | Val |
| | | | | 245 | | | | | 250 | | | | | | 255 |
| Gln | Gln | Val | Ser | Ser | Ser | Arg | Gln | Ser | Leu | Pro | Ile | Lys | Ala | Ile | Leu |
| | | | | 260 | | | | 265 | | | | | | | 270 |
| Lys | Ser | Leu | Pro | Val | Trp | Ala | Ile | Ser | Ile | Gly | Ser | Phe | Thr | Phe | Phe |
| | | | | 275 | | | | 280 | | | | | | | 285 |
| Trp | Ser | His | Asn | Ile | Met | Thr | Leu | Tyr | Thr | Pro | Met | Phe | Ile | Asn | Ser |
| | | | | 290 | | | 295 | | | | 300 | | | | |
| Met | Leu | His | Val | Asn | Ile | Lys | Glu | Asn | Gly | Phe | Leu | Ser | Ser | Leu | Pro |
| 305 | | | | | 310 | | | | 315 | | | | | | 320 |
| Tyr | Leu | Phe | Ala | Trp | Ile | Cys | Gly | Asn | Leu | Ala | Gly | Gln | Leu | Ser | Asp |
| | | | | 325 | | | | 330 | | | | | | | 335 |
| Phe | Phe | Leu | Thr | Arg | Asn | Ile | Leu | Ser | Val | Ile | Ala | Val | Arg | Lys | Leu |
| | | | | 340 | | | | 345 | | | | | | | 350 |
| Phe | Thr | Ala | Ala | Gly | Phe | Leu | Leu | Pro | Ala | Ile | Phe | Gly | Val | Cys | Leu |
| | | | | 355 | | | 360 | | | | | | | | 365 |
| Pro | Tyr | Leu | Ser | Ser | Thr | Phe | Tyr | Ser | Ile | Val | Ile | Phe | Leu | Ile | Leu |
| | | | | 370 | | | 375 | | | | 380 | | | | |
| Ala | Gly | Ala | Thr | Gly | Ser | Phe | Cys | Leu | Gly | Gly | Val | Phe | Ile | Asn | Gly |
| 385 | | | | | 390 | | | | 395 | | | | | | 400 |
| Leu | Asp | Ile | Ala | Pro | Arg | Tyr | Phe | Gly | Phe | Ile | Lys | Ala | Cys | Ser | Thr |
| | | | | 405 | | | | 410 | | | | | | | 415 |
| Leu | Thr | Gly | Met | Ile | Gly | Gly | Leu | Ile | Ala | Ser | Thr | Leu | Thr | Gly | Leu |
| | | | | 420 | | | | 425 | | | | | | | 430 |
| Ile | Leu | Lys | Gln | Asp | Pro | Glu | Ser | Ala | Trp | Phe | Lys | Thr | Phe | Ile | Leu |
| | | | | 435 | | | 440 | | | | 445 | | | | |
| Met | Ala | Ala | Ile | Asn | Val | Thr | Gly | Leu | Ile | Phe | Tyr | Leu | Ile | Val | Ala |
| | | | | 450 | | | 455 | | | | 460 | | | | |
| Thr | Ala | Glu | Ile | Gln | Asp | Trp | Ala | Lys | Glu | Lys | Gln | His | Thr | Arg | Leu |
| | | | | 465 | | | 470 | | | 475 | | | | | 480 |

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 470 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 1..470
- (D) OTHER INFORMATION: /note= "NPT3"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Asp | Gly | Lys | Pro | Ala | Thr | Arg | Lys | Gly | Pro | Asp | Phe | Cys | Ser | Leu |
| 1 | | | | 5 | | | | 10 | | | | | | | 15 |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Tyr | Gly | Leu | Ala | Leu | Ile | Met | His | Phe | Ser | Asn | Phe | Thr | Met | Ile |
| | | | | | | 20 | | 25 | | | | | 30 | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Arg | Val | Ser | Leu | Ser | Ile | Ala | Ile | Ile | Ala | Met | Val | Asn | Thr |
| | | | | | | 35 | | 40 | | | | 45 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Thr | Gln | Gln | Gln | Gly | Leu | Ser | Asn | Ala | Ser | Thr | Glu | Gly | Pro | Val | Ala |
| | | | | | 50 | | 55 | | | 60 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Asp | Ala | Phe | Asn | Asn | Ser | Ser | Ile | Ser | Ile | Lys | Glu | Phe | Asp | Thr | Lys |
| | | | | | 65 | | 70 | | | 75 | | | | 80 | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Ser | Val | Tyr | Gln | Trp | Ser | Pro | Glu | Thr | Gln | Gly | Ile | Ile | Phe | Ser |
| | | | | | | 85 | | 90 | | | | 95 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ile | Asn | Tyr | Gly | Ile | Ile | Leu | Thr | Leu | Ile | Pro | Ser | Gly | Tyr | Leu |
| | | | | | | 100 | | 105 | | | 110 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Gly | Ile | Phe | Gly | Ala | Lys | Lys | Met | Leu | Gly | Ala | Gly | Leu | Leu | Ile |
| | | | | | | 115 | | 120 | | | 125 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Ser | Leu | Leu | Thr | Leu | Phe | Thr | Pro | Leu | Ala | Ala | Asp | Phe | Gly | Val |
| | | | | | 130 | | 135 | | | 140 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Leu | Val | Ile | Met | Val | Arg | Thr | Val | Gln | Gly | Met | Ala | Gln | Gly | Met |
| | | | | | 145 | | 150 | | | 155 | | 160 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ala | Trp | Thr | Gly | Gln | Phe | Thr | Ile | Trp | Ala | Lys | Trp | Ala | Pro | Pro | Leu |
| | | | | | | 165 | | 170 | | | 175 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Glu | Arg | Ser | Lys | Leu | Thr | Thr | Ile | Ala | Gly | Ser | Gly | Ser | Ala | Phe | Gly |
| | | | | | 180 | | | | 185 | | | 190 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Phe | Ile | Ile | Leu | Cys | Val | Gly | Gly | Leu | Ile | Ser | Gln | Ala | Leu | Ser |
| | | | | | 195 | | | 200 | | | 205 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Trp | Pro | Phe | Ile | Phe | Tyr | Ile | Phe | Gly | Ser | Thr | Gly | Cys | Val | Cys | Cys |
| | | | | | 210 | | 215 | | | 220 | | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Leu | Trp | Phe | Thr | Val | Ile | Tyr | Asp | Asp | Pro | Met | His | His | Pro | Cys |
| | | | | | 225 | | 230 | | | 235 | | 240 | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ile | Ser | Val | Arg | Glu | Lys | Glu | His | Ile | Leu | Ser | Ser | Leu | Ala | Gln | Gln |
| | | | | | 245 | | | 250 | | | 255 | | | | |

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Pro | Ser | Ser | Pro | Gly | Arg | Ala | Val | Pro | Ile | Lys | Ala | Met | Val | Thr | Cys |
| | | | | | 260 | | 265 | | | 270 | | | | | |

Leu Pro Leu Trp Ala Ile Phe Leu Gly Phe Phe Ser His Phe Trp Leu
 275 280 285

Cys Thr Ile Ile Leu Thr Tyr Leu Pro Thr Tyr Ile Ser Thr Leu Leu
 290 295 300

His Val Asn Ile Arg Asp Ser Gly Val Leu Ser Ser Leu Pro Phe Ile
 305 310 315 320

Ala Ala Ala Ser Cys Thr Ile Leu Gly Gly Gln Leu Ala Asp Phe Leu
 325 330 335

Leu Ser Arg Asn Leu Leu Arg Leu Ile Thr Val Arg Lys Leu Phe Ser
 340 345 350

Ser Leu Asp Met Gln Val Ser Ser Trp Glu Xaa Xaa Xaa Xaa Xaa Xaa
 355 360 365

Xaa Ser Gln Gly
 370 375 380

Asp Leu Gly Ser Ser Gln Glu Ser Xaa Ser Leu Pro Leu Pro Leu Asp
 385 390 , 395 400

Ser Ser Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Val Arg Ile Leu
 405 410 415

Ser Leu Val Gly Gly Met Ser Phe Ser Cys Leu Leu Xaa Xaa Xaa Xaa
 420 425 430

Xaa Gln Ser Thr Cys Leu Ala Trp Ser Phe Thr Ser Arg Leu Asp Lys
 435 440 445

Gln Asn Phe Lys Thr Gly Pro Lys Arg Gly Pro Leu Pro Ala Ser Glu
 450 455 460

Asp Ile Lys Leu Gln Thr
 465 470

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 480 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Region
- (B) LOCATION: 1..480
- (D) OTHER INFORMATION: /note= "NPT4"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Met Gln Val Asp Glu Thr Leu Ile Pro Arg Lys Gly Pro Ser Leu Cys
 1 5 10 15

Ser Ala Arg Tyr Gly Ile Ala Leu Val Leu His Phe Cys Asn Phe Thr

20

25

30

Thr Ile Ala Gln Asn Val Ile Met Asn Ile Thr Met Val Ala Met Val
 35 40 45

Asn Ser Thr Ser Pro Gln Ser Gln Leu Asn Asp Ser Ser Glu Xaa Xaa
 50 55 60

Xaa
 65 70 75 80

Xaa
 85 90 95

Xaa Val Leu Pro Val Asp
 100 105 110

Ser Phe Gly Gly Leu Ser Lys Ala Pro Lys Ser Leu Pro Xaa Xaa Xaa
 115 120 125

Xaa
 130 135 140

Xaa Ala Lys
 145 150 155 160

Ser Ser Ile Leu Gly Gly Gln Phe Ala Ile Trp Glu Lys Trp Gly Pro
 165 170 175

Pro Gln Glu Arg Ser Arg Leu Cys Ser Ile Ala Leu Ser Gly Met Leu
 180 185 190

Leu Gly Cys Phe Thr Ala Ile Leu Ile Gly Gly Phe Ile Ser Glu Thr
 195 200 205

Leu Gly Trp Pro Phe Val Phe Tyr Ile Phe Gly Gly Val Gly Cys Val
 210 215 220

Cys Cys Leu Leu Trp Phe Val Val Ile Tyr Asp Asp Pro Phe Ser Tyr
 225 230 235 240

Pro Trp Ile Ser Thr Ser Glu Lys Glu Tyr Ile Ile Ser Ser Leu Lys
 245 250 255

Gln Gln Val Gly Ser Ser Lys Gln Pro Leu Pro Ile Lys Ala Met Leu
 260 265 270

Arg Ser Leu Pro Ile Trp Ser Ile Cys Leu Gly Cys Phe Ser His Gln
 275 280 285

Trp Leu Val Ser Thr Met Val Val Tyr Ile Pro Thr Tyr Ile Ser Ser
 290 295 300

Val Tyr His Val Asn Ile Arg Asp Asn Gly Leu Leu Ser Ala Leu Pro
 305 310 315 320

Phe Ile Val Ala Trp Val Ile Gly Met Val Gly Gly Tyr Leu Ala Asp
 325 330 335

Phe Leu Leu Thr Lys Xaa Lys Phe Arg Leu Ile Thr Val Arg Lys Ile
 340 345 350

Ala Thr Ile Leu Gly Ser Leu Pro Ser Ser Ala Leu Ile Val Ser Leu
 355 360 365
 Pro Tyr Leu Asn Ser Gly Tyr Ile Thr Ala Thr Ala Leu Leu Thr Leu
 370 375 380
 Ser Cys Gly Leu Ser Thr Leu Cys Gln Ser Gly Ile Tyr Ile Asn Val
 385 390 395 400
 Leu Asp Ile Ala Pro Arg Tyr Ser Ser Phe Leu Met Gly Ala Ser Arg
 405 410 415
 Gly Phe Ser Ser Ile Ala Pro Val Ile Val Pro Thr Val Ser Gly Phe
 420 425 430
 Leu Leu Ser Gln Asp Pro Glu Phe Gly Trp Arg Asn Val Phe Phe Leu
 435 440 445
 Leu Phe Ala Val Asn Leu Leu Gly Leu Leu Phe Tyr Leu Ile Phe Gly
 450 455 460
 Glu Ala Asp Val Gln Glu Trp Ala Lys Glu Arg Lys Leu Thr Arg Leu
 465 470 475 480

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2882 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (B) LOCATION: 1..2882
 - (D) OTHER INFORMATION: /note= "cDNA 21"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

| | |
|----------------------------------------------------------------------|-----|
| CGACCCACGC GTCCGAACAT GGCGACCTAG GAGAAAGGGA AGAACAAATT TTTCTCCTCT | 60 |
| TTTGGGAAGG TTTGCGTCTA GTAGTGCCTG TGCCCCCTGGG CAGATTGGAG AGAAGAGGGA | 120 |
| CGACTGGAGA ATCGTCGAGA ACCAGCGGAG AAAAGAAAAA GCAACGTTA ATTCTAGAAG | 180 |
| GCCTCCTGTC CCTGCCGTCT CTGGGTGCTC ATGGAATCAG CTGCTGCCCT GCACCTCTCC | 240 |
| CGGCCAGCCT CCCTCCTCCT CCTCCTCCTC AGCCTGTGTG CACTGGTCTC AGCCCAGTTT | 300 |
| ATTGTCGTGG GGCCCACGTGA TCCCACATCTTG GCCACGGTTG GAGAAAACAC TACGTTACGC | 360 |
| TGCCCATCTGT CACCCGAGAA AAATGCTGAG GACATGGAGG TGCGGTGGTT CCGGTCTCAG | 420 |
| TTCTCCCCCG CAGTGTGTTGT GTATAAAGGT GGCAGAGAGA GAACAGAGGA GCAGATGGAG | 480 |
| GAGTACCGAG GAAGAACAC CTTTGTGAGC AAAGACATCA GCAGGGGCAG CGTGGCCCTG | 540 |

| | |
|-------------------------------------------------------------------------|------|
| GTCATACACA ACATCACAGC CCAGGAAAAC GGCACCTACC GCTGTTACTT CCAAGAAGGC | 600 |
| AGGTCTACG ATGAGGCCAT CCTGCACCTC GTAGTGGCAG GACTAGGCTC TAAGCCCCTC | 660 |
| ATTTCATGA GGGGCCATGA AGACGGGGC ATCCGGCTGG AGTGCATATC TAGAGGGTGG | 720 |
| TACCCAAAGC CCCTCACAGT GTGGAGGGAC CCCTACGGTG GGGTTGCGCC TGCCCTGAAA | 780 |
| GAGGTCTCCA TGCCTGATGC AGACGGCCTC TTCATGGTCA CCACGGCTGT GATCATCAGA | 840 |
| GACAAGTCTG TGAGGAACAT GTCCTGCTCT ATCAACAACA CCCTGCTCGG CCAGAAGAAA | 900 |
| GAAAGTGTCA TTTTATTCC AGAACCTTT ATGCCAGTG TGTCTCCCTG TGCAGTGGCC | 960 |
| CTGCCTATCA TTGTGGTTAT TCTGATGATA CCCATTGCCG TATGCATCTA TTGGATCAAC | 1020 |
| AAACTCCAAA AGGAAAAAAA GATTCTGTCA GGGGAAAAGG AGTTGAACG GGAAACAAGA | 1080 |
| GAAATTGCTC TAAAGGAACG GGAGAAAGAA CGTGTGCAA AAGAGGAAGA ACTTCAAGTA | 1140 |
| AAAGAGAACAC TTCAAGAAGA ATTGCATGG AGAAGAACAT TCTTACATGC TGTGATGTG | 1200 |
| GTCCTGGATC CAGACACCGC TCATCCCGAT CTCTTCCTGT CAGAGGACCG GAGAAGTGTG | 1260 |
| AGAAGGTGCC CCTTCAGGCA CCTAGGGGAG AGCGTGCCTG ACAACCCAGA GAGATTGAC | 1320 |
| AGTCAGCCTT GTGTCCTAGG CCGGGAGAGC TTCGCTTCAG GGAAACATTA CTGGGAGGTG | 1380 |
| GAGGTGGAAA ACGTGATTGA GTGGACTGTG GGGGTCTGTA GAGACAGTGT TGAGAGGAAA | 1440 |
| GGGGAGGTCC TGCTGATTCC TCAGAATGGC TTCTGGACCT TGGAGATGCA TAAAGGGCAA | 1500 |
| TACCGGGCCG TGTCTCCCC TGATAGGATT CTCCCTTGAGGAGTCCCT TTGCCGGGTG | 1560 |
| GGCGTCTTCC TGGACTATGA AGCTGGAGAT GTCTCCTTCT ACAACATGAG GGACAGATCG | 1620 |
| CACATCTACA CATGTCCCCG TTCAAGCCTT TCCGTGCCTG TGAGGCCCTT CTTCAAGGTTG | 1680 |
| GGGTGTGAGG ACAGCCCCAT CTTCATCTGC CCTGCACCTCA CAGGAGCCAA TGGGGTCACG | 1740 |
| GTGCCTGAAG AGGGCTGAC ACTTCACAGA GTGGGGACCC ACCAGAGCCT ATAGAATCAA | 1800 |
| TTCCTTGGTC TCACAGCCAT GTAGACAAGC CCTGGTCATC TCAGCAGCCA CCGCACAAACA | 1860 |
| CCCCTGGTGG AAGACACGCC CTCCTCCCCCT CTGGTCACAC AAGAGAACAT CTTCCAGCTG | 1920 |
| CCTCTTCAAC ACCCACTACA GACCTCAGCC CCAGTTTCT CCTCCTCACT AGGCTGTGTT | 1980 |
| TTTAGTAGTT CCTTGCTTG TAACTATGGG ATGGGATCCA GGCATAGGGA ACTAGTTGTT | 2040 |
| ACACAGCTCC CAGCCAAGAA GAAAGTGTGA GAAGTTGATG GGCAGCAAAC CTGCTGTTA | 2100 |
| ACATCAGGGT GACCACATTA AGCCCAAGTAT TCCAGTTGGC ACCAGAACAT ATGGACTTGG | 2160 |
| AATGAGGCCT ACAGGGTTCA CCAGGATGTA AGAGGGAGAGA GGAATCCACA GGACCACCA | 2220 |
| AGAGGAGAGG GAACCAGATA TGCAGATCAG AGATAGAGGA AGTGGAACCA GAGAGCTGGG | 2280 |
| AGGGACCAAG GTTGTAAAGGG TGGCTAAGTC CCACCATAAC AGCTAAGGGG ACCTGGGAGA | 2340 |
| TGATGGCTCA TTTCCACCCA GCCCCAGGAT TTCCAGAGCG CACATCCACA GGCTGGACC | 2400 |

| | |
|-------------------------------------------------------------------|------|
| TGGGATGAAG ATGAATGAAG AACATGGATG CACGTGGATG TAGTTGGCT CAGGTGTCCC | 2460 |
| TGCAGTTGGC AAGGAGTCAG TACTCAGTCC CTGAGTGTGG CTGAAATTG AGGTCTGGC | 2520 |
| TGAGCCAAGG AGTAATGGAC CAGATCTACC TCAGTATTCA AGTCAGTGG GGACACCAGT | 2580 |
| GGCTTCAAAC TTCCTGGTTT CATGATATCT TGAGACGCCT TACAAATGAT GGAGGATTCC | 2640 |
| AAAGAGTTT TGTTTATTG GGTAAATATT TGTTGGTATT TATGGCATTG GAGATTGAAA | 2700 |
| CTAAGAAATG TTTAATTTC TTACCTTAC AACATTTATT TACATTACAT ACATACATT | 2760 |
| ACAACATTAA TTAATTATA TTAAAATAGC ATGAATAAGC CAATTATAGG TTAATATAAG | 2820 |
| TAGAATGTT GTGAAAAATA AGTATGGTAT CCAAAGCAAA ATAAATTAA TTGTGAAGTG | 2880 |
| TG | 2882 |

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2926 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..2926
- (D) OTHER INFORMATION: /note= "cDNA 29"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

| | |
|--------------------------------------------------------------------|-----|
| ACCGTCCGC TTCGGAATGA GAGACTAAC CATAATAGAA AGAATGGAGA ACTATTAACC | 60 |
| ACCATTCTTC AGTGGGCTGT GATTTTCAGA GGGGAATACT AAGAAATGGT TTTCCATACT | 120 |
| GGAACCCAAA GGTAAAGACA CTCAGGACA GACATTTTG GCAGAGCATA GATGAAAATG | 180 |
| GCAAGTTCCC TGGCTTCCT TCTGCTAAC TTTCATGTCT CCCTCTTCTT GGTCCAGCTG | 240 |
| CTCACTCCCT GCTCAGCTCA GTTTCTGTG CTTGGACCT CTGGGCCAT CCTGGCCATG | 300 |
| GTGGGTGAAG ACGCTGATCT GCCCTGTAC CTGTTCCGA CCATGAGTGC AGAGACCATG | 360 |
| GAGCTGAGGT GGGTGAGTTC CAGCCTAAGG CAGGTGGTGA ACGTGTATGC AGATGGAAAG | 420 |
| GAAGTGGAAAG ACAGGCAGAG TGCACCATAT CGAGGGAGAA CTTCGATTCT GCGGGATGGC | 480 |
| ATCACTGCAG GGAAGGCTGC TCTCCGAATA CACAACGTCA CAGCCTCTGA CAGTGGAAAG | 540 |
| TACTTGTGTT ATTTCCAAGA TGGTGACTTC TACGAAAAAG CCCTGGTGGA GCTGAAGGTT | 600 |
| GCAGCATTGG GTTCTGATCT TCACATTGAA GTGAAGGGTT ATGAGGATGG AGGGATCCAT | 660 |
| CTGGAGTGCA GGTCCACTGG CTGGTACCCCC CAACCCAAA TAAAGTGGAG CGACACCAAG | 720 |
| GGAGAGAACA TCCCCGCTGT GGAAGCACCT GTGGTTGCAG ATGGAGTGGG CCTGTATGCA | 780 |

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|--------------------------------------------------------------------|------|
| GTAGCAGCAT CTGTGATCAT GAGAGGCAGC TCTGGTGGGG GTGTATCCTG CATCATCAGA | 840 |
| AATTCCCTCC TCGGCCTGGA AAAGACAGCC AGCATATCCA TCGCAGACCC CTTCTTCAGG | 900 |
| AGCGCCCAGC CCTGGATCGC GGCCCTGGCA GGGACCCTGC CTATCTCGTT GCTGCTTCTC | 960 |
| GCAGGAGCCA GTTACTTCTT GTGGAGACAA CAGAAGGAAA AAATTGCTCT GTCCAGGGAG | 1020 |
| ACAGAAAGAG AGCGAGAGAT GAAAGAAATG GGATACGCTG CAACAGAGCA AGAAATAAGC | 1080 |
| CTAAGAGAGA AGCTCCAGGA GGAACCTCAAG TGGAGGAAAA TCCAGTACAT GGCTCGTGGA | 1140 |
| GAGAAGTCTT TGGCCTATCA TGAATGGAAA ATGGCCCTCT TCAAACCTGC GGATGTGATT | 1200 |
| CTGGATCCAG ACACGGCAAA CGCCATCCTC CTTGTTCTG AGGACCAGAG GAGTGTGCAG | 1260 |
| CGTGCTGAAG AGCCGCAGGA TCTGCCAGAC AACCCCTGAGA GATTTGAATG GCGTTACTGT | 1320 |
| GTCCTTGGCT GTGAAAACCTT CACATCAGGG AGACATTACT GGGAGGTGGA AGTGGGGGAC | 1380 |
| AGAAAAGAGT GGCATATTGG GGTATGTAGT AAGAACGTGG AGAGGAAAAA AGGTTGGGTC | 1440 |
| AAAATGACAC CGGAGAACCGG ATACTGGACT ATGGGCCTGA CTGATGGAA TAAGTATCGG | 1500 |
| GCTCTCACTG AGCCCAGAAC CAACCTGAAA CTTCTGAGC CTCCTAGGAA AGTGGGGATC | 1560 |
| TTCCTGGACT ATGAGACTGG AGAGATCTCG TTCTATAATG CCACAGATGG ATCTCATATC | 1620 |
| TACACCTTTC CGCACGCCTC TTTCTCTGAG CCTCTATATC CTGTTTCAG AATTTGACC | 1680 |
| TTGGAGCCA CTGCCCTGAC CATTGCCCA ATACCAAAAG AAGTAGAGAG TTCCCCCGAT | 1740 |
| CCTGACCTAG TGCCTGATCA TTCCCTGGAG ACACCACTGA CCCCGGGCTT AGCTAATGAA | 1800 |
| AGTGGGGAGC CTCAGGCTGA AGTAACATCT CTGCTTCTCC CTGCCCACCC TGGAGCTGAG | 1860 |
| GTCTCCCTT CTGCAACAAAC CAATCAGAAC CATAAGCTAC AGGCACGCAC TGAAGCACTT | 1920 |
| TACTGATATT CATTCCATTA TTCCATATGA CAGTTTTT GAGTTCGTA CCACCTTATT | 1980 |
| GTCCCCTTAT ACAGATAAGG AAACCTGGGT GCAGAAAGGT GAATTAACCT TACAAAGTAG | 2040 |
| ACATGACAAG TGAACAGCAG AGCTGGATC TAAACAGCAA TAACTAACAT TAACAGAGAA | 2100 |
| TTTAAAATGT TCTTAGTGCT GTGTTATAAG CTTGGTGGGA TGTCACTCCT TTAATCCTCA | 2160 |
| CAACACCCCTG TCGGGTAGTC ATATTTGCA AGTATGGAAG CTGAGGCAGG GCAACATGAA | 2220 |
| GTAACCTACA TAATTCTATAC AGTAATTGT GCAGTTGGGA GATGTTCAGC CTTAGTCCCT | 2280 |
| GGCTAATTGC CTGTTTTT CCAGCCTGAT TTTTTTCCC ACAGGAAGAG CCCACATGTA | 2340 |
| GCCCTGAGGT TTCCCTCCCA GGACAGCTGC AGGGTAGAGA TCATTTAAG TGCTTGTGGA | 2400 |
| GTTGACATCC CTATTGACTC TTTCCCAGCT GATATCAGAG ACTTAGACCC AGCACTCCTT | 2460 |
| GGATTAGCTC TGCAGAGTGT CTTGGTGGAG AGAATAACCT CATAGTACCA ACATGACATG | 2520 |
| TGACTTGGAA AGAGACTAGA GGCCACACTT GATAAATCAT GGGGCACAGA TATGTTCCCA | 2580 |
| CCCAACAAAT GTGATAAGTG ATTGTGCAGC CAGAGCCAGC CTTCCCAA TCAAGGTTTC | 2640 |

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|--------------------------------------------------------------------|------|
| CAGGCAGAGC AAATACCCCTA GAGATTCTCT GTGATATAGG AAATTTGGAT CAAGGAAGCT | 2700 |
| AAAAGAATTA CAGGGATGTT TTTAATCCCA CTATGGACTC AGTCTCCTGG AAATAGGTCT | 2760 |
| GTCCACTCCT GGTCAATTGGT GGATGTTAAA CCCATATTCC TTTCAACTGC TGCCTGCTAG | 2820 |
| GGAAAAACTGC TCCTCATTAT CATCACTATT ATTGCTCACC ACTGTATCCC CTCTACTTGG | 2880 |
| CAAGTGGTTG TCAAGTTCTA GTTGTCAAT AAATGTGTTA ATAATG | 2926 |

(2) INFORMATION FOR SEQ ID NO:14:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 1645 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (B) LOCATION: 1..1645
 - (D) OTHER INFORMATION: /note= "cDNA 23"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO;14:

| | |
|--------------------------------------------------------------------|------|
| ATTTGCTTTC TCTTTTCCT TTCTTCGGGA TGAGAGGCTA AGCCATAATA GAAAGAATGG | 60 |
| AGAATTATTG ATTGACCGTC TTTATTCTGT GGGCTCTGAT TCTCCAATGG GAATACCAAG | 120 |
| GGATGGTTTT CCATACTGGGA ACCCAAAGGT AAAGACACTC AAGGACAGAC ATTTTGCGA | 180 |
| GAGCATAGAT GAAAATGGCA AGTTCCCTGG CTTTCCTTCT GCTCAACTTT CATGTCTCCC | 240 |
| TCCTCTTGGT CCAGCTGCTC ACTCCTGCT CAGCTCAGTT TTCTGTGCTT GGACCCCTTG | 300 |
| GGCCCACCTCT GGCCATGGTG GGTGAAGACG CTGATCTGCC CTGTCACCTG TTCCCGACCA | 360 |
| TGAGTGCAGA GACCATGGAG CTGAAGTGGG TAAGTTCCAG CCTAAGGCAG GTGGTGAACG | 420 |
| TGTATGCAGA TGGAAAGGAA GTGGAAGACA GGCAGAGTGC ACCGTATCGA GGGAGAACTT | 480 |
| CGATTCTGCG GGATGGCATC ACTGCAGGGGA AGGCTGCTCT CCGAATACAC AACGTCACAG | 540 |
| CCTCTGACAG TGGAAAGTAC TTGTGTTATT TCCAAGATGG TGACTTCTAT GAAAAAGCCC | 600 |
| TGGTGGAGCT GAAGGTTGCA GCACTGGTT CTAATCTTCA CGTCGAAGTG AAGGGTTATG | 660 |
| AGGATGGAGG GATCCATCTG GAGTGCAGGT CCACCGGCTG GTACCCCCAA CCCCAAATAC | 720 |
| AGTGGAGCAA CGCCAAGGGA GAGAACATCC CAGCTGTGGA AGCACCTGTG GTTGCAGATG | 780 |
| GAGTGGGCCT ATATGAAGTA GCAGCATCTG TGATCATGAG AGGCGGCTCC GGGGAGGGTG | 840 |
| TATCCTGCAT CATCAGAAAT TCCCTCCTCG GCCTGGAAAA GACAGCCAGC ATTTCCATCG | 900 |
| CAGACCCCTT CTTCAGGAGC GCCCAGCCCT GGATCGCAGC CCTGGCAGGG ACCCTGCCTA | 960 |
| TCTTGCTGCT GCTTCTCGCC GGAGCCAGTT ACTTCTTGTG GAGACAAACAG AAGGAAATAA | 1020 |

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|--------------------------------------------------------------------|------|
| CTGCTCTGTC CAGTGAGATA GAAAGTGAGC AAGAGATGAA AGAAATGGGA TATGCTGCAA | 1080 |
| CAGAGCGGGA AATAAGCCTA AGAGAGAGCC TCCAGGAGGA ACTCAAGAGG AAAAAATCCA | 1140 |
| GTACTTGACT CGTGGAGAGG AGTCTTCGTC CGATACCAAT AAGTCAGCCT GATGCTCTAA | 1200 |
| TGGAAAAATG GCCCTCTTCA AGCCTGGTGA GGAAATGCTT CAGATGAGGC TCCACCTTGT | 1260 |
| TAAATAAATT GGATGTATGG AAAAATAGAC TGCAAAAAG GGGAACTCAT TTGCTCACG | 1320 |
| AGTGGTCGAG TGAAGATTGA AAATTAACCT CTGAGGGCCA GCACAGCAGC TCATGCCTGT | 1380 |
| AATCCTAGCA CTTTGGAAAGG CTGAGGAGGG CGGATCACAA GGTCAGGAGA TCAAGACCAT | 1440 |
| CCTGGCTAAC ACGGTGAAAC CCCGTCTCTA CTAAAAATAC AAAAATAAA AAATTAGCCG | 1500 |
| GGCATGGTGA CGGGCACCTG TAGTCCCAGC TACTCGGGAG GCTGAGGCAG GAGAATGGCA | 1560 |
| TGAACCCGGA AGGCAGAGCT TGCAGTGAGC CGAGATCACG CCACTGCACT CCAGCCTGGG | 1620 |
| AGACAGAGCG AGACTCTGTC TCAAG | 1645 |

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..3416
- (D) OTHER INFORMATION: /note= "cDNA 44"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

| | |
|--------------------------------------------------------------------|-----|
| CTGAAGCTTG CATGCCTGCA GGTCGACCCA CGCGTCCGCG GACCGTGGG CGGACGCGTG | 60 |
| GGTTTTCCCT TTCTTCCAGA AGGAGATTAA ACCATAGTAG AAAGAATGGA GAACTATTAA | 120 |
| CTGCCCTCCT TCTGTGGGCT GTGATTTCA GAGGGGAATG CTAAGAGGTG ATTTCAATG | 180 |
| TTGGGACTCA AAGGTGAAGA CACTGAAGGA CAGAATTTT GGCAGAGGAA AGATCTTCTT | 240 |
| CGGTCACCAT ACTTGAGTTA GCTCTAGGGA AGTGGAGGTT TCCATTTGGA ATTCTATAGC | 300 |
| TTCTTCCAGG TCATAGTGTC TGCCCCCAC CTTCCAGTAT CTCCTGATAT GCAGCATGAA | 360 |
| TGAAAATGGC AAGTTTCCTG GCCTTCCTTC TGCTCAACTT TCGTGTCTGC CTCCTTTGC | 420 |
| TTCAGCTGCT CATGCCTCAC TCAGCTCAGT TTTCTGTGCT TGGACCCCTCT GGGCCCATCC | 480 |
| TGGCCATGGT GGGTGAAGAC GCTGATCTGC CCTGTCACCT GTTCCCGACC ATGAGTGCAG | 540 |
| AGACCATGGA GCTGAAGTGG GTGAGTTCCA GCCTAAGGCA GGTGGTGAAC GTGTATGCAG | 600 |
| ATGGAAAGGA AGTGGAAAGAC AGGCAGAGTG CACCGTATCG AGGGAGAACT TCGATTCTGC | 660 |

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|--------------------------------------------------------------------|------|
| GGGATGGCAT CACTGCAGGG AAGGCTGCTC TCCGAATACA CAACGTACCA GCCTCTGACA | 720 |
| GTGGAAAGTA CTTGTGTTAT TTCCAAGATG GTGACTTCTA TGAAAAAGCC CTGGTGGAGC | 780 |
| TGAAGGTTGC AGCACTGGGT TCTGATCTTC ACGTTGATGT GAAGGGTTAC AAGGATGGAG | 840 |
| GGATCCATCT GGAGTGCAGG TCCACTGGCT GGTACCCCCA ACCCCAAATA CAGTGGAGCA | 900 |
| ACAACAAGGG AGAGAACATC CCGACTGTGG AAGCACCTGT GGTTGCAGAC GGAGTGGGCC | 960 |
| TGTATGCAGT AGCAGCATCT GTGATCATGA GAGGCAGCTC TGGGGAGGGT GTATCCTGTA | 1020 |
| CCATCAGAAG TTCCCTCCTC GCCCTGGAAA AGACAGCCAG CATTTCATC GCAGACCCCT | 1080 |
| TCTTCAGGAG CGCCCAGAGG TGGATGCCCG CCCTGGCACG GACCCTGCCT GTCTTGCTGC | 1140 |
| TGCTTCTTGG GGGAGCCGGT TACTTCCTGT GGCAACAGCA GGAGGAAAAA AAGACTCAGT | 1200 |
| TCAGAAAGAA AAAGAGAGAG CAAGAGTTGA GAGAAATGGC ATGGAGCACA ATGAAGCAAG | 1260 |
| AACAAAGCAC AAGAGTGAAG CTCCTGGAGG AACTCAGATG GAGAAGTATC CAGTATGCAT | 1320 |
| CTCGGGGAGA GAGACATTCA GCCTATAATG AATGGAAAAA GGCCCTCTTC AAGCCTGCGG | 1380 |
| ATGTGATTCT GGATCCAAAA ACAGCAAACC CCATCCTCCT TGTTTCTGAG GACCAGAGGA | 1440 |
| GTGTGCAGCG TGCCAAGGAG CCCCAGGATC TGCCAGACAA CCCTGAGAGA TTTAATTGGC | 1500 |
| ATTATTGTGT TCTCGGCTGT GAGAGCTTCA TATCAGGGAG ACATTACTGG GAGGTGGAGG | 1560 |
| TAGGGGACAG GAAAGAGTGG CATATAGGGG TGTGCAGTAA GAATGTGCAG AGAAAAGGCT | 1620 |
| GGGTCAAAAT GACACCTGAG AATGGATTCT GGACTATGGG GCTGACTGAT GGGATAAGT | 1680 |
| ATCGGACTCT AACTGAGCCC AGAACCAACC TGAAACTTCC TAAGCCCCCT AAGAAAGTGG | 1740 |
| GGGTCTTCCCT GGACTATGAG ACTGGAGATA TCTCATTCTA CAATGCTGTG GATGGATCGC | 1800 |
| ATATTCTACAC TTTCCTGGAC GTCTCCTTCT CTGAGGCTCT ATATCCTGTT TTCAGAATTT | 1860 |
| TGACCTTGGGA GCCCACGGCC CTGAGTATTG GTCCAGCGTG AAAAGAAGAA GAGAGTCCCT | 1920 |
| CCAATTCTGA CCGAGTGCTG ATCATTCCCT AGAGACACCA GTAACCCCGG GCTTAGCTAA | 1980 |
| CGAAAGTGGG GAGCCTCAGG CTGAAGTAAC TTTTCTCTGC TTCTCCCTGC CCAGCTCAGA | 2040 |
| GCTGAGGGCC TCCCCCTCCA CAGCAACCAA TCACAACCAT AAAGCTACAA GCACGCACTG | 2100 |
| AAGCACTTTA CTGATACTCA TTCAATTATT CATATGACAG TTGTTTGAGT TTGGTACCAT | 2160 |
| CTTATTTCC CCTTATACAG ATAAGGAAAC TGGGGTGCAG AAAAGTGAAT TGACTACAAA | 2220 |
| GTAGACATGA CTAGTTAACCA ACACAGCTGG GATCTAAACA GCAATAACTA ACATTAATGG | 2280 |
| AGAACTTAAA ATGCTCTGAG TGCTGTGTTA TGAGCTTTGG TGGATGTCAC TCCTTTAATC | 2340 |
| CTCGCAACAC CCTGTCGGGT AGTCTCATTG AGCAAGTATG GAAGTTGAGG CAGGGCAACA | 2400 |
| TTAAGCAACT TACATAACTC ATGCAGTAAT TTCTGCAGTT GGGAGATGTT CAGCTTCAGT | 2460 |
| CCCCGGCCCT ATGGCCGTTT TTTTCCACCC TGTTCTTCC CCCATAGGAA GAACCCACCT | 2520 |

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|-------------------------------------------------------------------|------|
| GTAGCCCTGA GGTTCTTTTC CCAGGATGGC TCCAGGATAA GGATCACTGT AGGTGGTTGT | 2580 |
| GGAGTTGACA CCCCTGTTGA CTCCTTCCA GCTGATTGTC AGAGCCTTAG ACCCAGCACG | 2640 |
| CCTTGGATTA GCTTGCGAGA GTGTCTTGGT TGAGAGAATA ACCTCACCGT ACCCACATGA | 2700 |
| CACGTGATTT GGAAAGAGAC TAGAGGCCAC ACTTGATAAA TCATGGGAA CAGATGTGTT | 2760 |
| CCACCCAACA AATGTGATAA GTGATCATGC AGCCAGAGCC AGCCTTCCTT CAATCAAGGT | 2820 |
| TTCCAGGCAG AGCAAATACC CTAGAGATT TCTGTGATAT AGGAAATTG GATGAAGGGA | 2880 |
| GCTAGAAGAA ATACAGGGAT TTTTTTTTT TTTTAAGATG GAGTCTTACT CTGTTGCTAG | 2940 |
| GCTGGAGTGC AGTGGTGCAG TCTCAGCTCC CTGCAACCTC CACCTCCTGG GTTCAAACAA | 3000 |
| TTCTCCTGCC TCAGCCTCCC GAGTACTGGG AATATAGGTG CACGCCACCA CACCCAACAA | 3060 |
| ATTTTGTAC TTTTAGTACA GATGAGGGTT CACTATGTTG GCCAGGATGG TCTCGATCTC | 3120 |
| TTGACCTCAT GATCCACCCA CCTCGGTCTC CCAAAGTGCT GGGATTACAG GCTTGAGCCA | 3180 |
| CGGGGTGACC GGCTTACAGG GATATTTTA ATCCCGTTAT GGACTCTGTC TCCAGGAGAG | 3240 |
| GGGTCTATCC ACCCCTGCTC ATTGGTGGAT GTTAAACCAA TATTCCCTTC AACTGCTGCC | 3300 |
| TGCTAGGGAA AAACTACTCC TCATTATCAT CATTATTATT GCTCTCCACT GTATCCCCTC | 3360 |
| TACCTGGCAT GTGCTTGTCA AGTTCTAGTT GTTCAATAAA TTGTTAATA ATGCTG | 3416 |

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3502 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..3502
- (D) OTHER INFORMATION: /note= "cDNA 32"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

| | |
|--------------------------------------------------------------------|-----|
| AGAGAACAGG TCCCAGATAAC CGAGTCGCA ACCCAAACA TCGCGATTAA TAGGAGGCCT | 60 |
| CTGGTCTCTG CCTGCCCTGG GTGCTCATGG AACCAAGCTGC TGCTCTGCAC TTCTCCCTGC | 120 |
| CAGCCTCCCT CCTCCTCCTC CTGCTCCTCC TCCTTCTCAG CCTGTGTGCA CTGGTCTCAG | 180 |
| CCCAGTTAC TGCGTGGGG CCAGCTAAC CCATCCTGGC CATGGTGGGA GAAAACACTA | 240 |
| CATTACGCTG CCATCTGTCA CCCGAGAAAA ATGCTGAGGA CATGGAGGTG CGGTGGTTCC | 300 |
| GGTCTCAGTT CTCCCCCGCA GTGTTGTGT ATAAGGGTGG GAGAGAGAGA ACAGAGGAGC | 360 |
| AGATGGAGGA GTACCGGGGA AGAATCACCT TTGTGAGCAA AGACATCAAC AGGGGCAGCG | 420 |

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|--------------------------------------------------------------------|------|
| TGGCCCTGGT CATAACATAAC GTCACAGCCC AGGAGAAATGG GATCTACCGC TGTACTTCC | 480 |
| AAGAAGGCAG GTCCTACGAT GAGGCCATCC TACGCCTCGT GGTGGCAGGC CTTGGGTCTA | 540 |
| AGCCCCCTCAT TGAAATCAAG GCCCAAGAGG ATGGGAGCAT CTGGCTGGAG TGCATATCTG | 600 |
| GAGGGTGGTA CCCAGAGCCC CTCACAGTGT GGAGGGACCC CTACGGTGAG GTTGTGCCCG | 660 |
| CCCTGAAGGA GGTTTCCATC GCTGATGCTG ACGGCCTTT CATGGTCACC ACAGCTGTGA | 720 |
| TCATCAGAGA CAAGTATGTG AGGAATGTGT CCTGCTCTGT CAACAACACC CTGCTCGGCC | 780 |
| AGGAGAAGGA AACTGTCATT TTTATTCCAG AATCCTTTAT GCCCAGCGCA TCTCCCTGGA | 840 |
| TGGTGGCCCT AGCTGTCATC CTGACCGCAT CTCCCTGGAT GGTGTCCATG ACTGTCATCC | 900 |
| TGGCTGTTT CATCATCTTC ATGGCTGTCA GCATCTGTTG CATCAAGAAA CTTCAAAGGG | 960 |
| AAAAAAAGAT TCTGTCAGGG GAAAAGAAAG TTGAACAAGA GGAAAAGAA ATTGCACAGC | 1020 |
| AACTTCAAGA AGAATTGCGA TGGAGAAGAA CATTCTTACA TGCTGCTGAT GTGGTCCTGG | 1080 |
| ATCCAGACAC CGCTCATCCC GAGCTCTTCC TGTCAGAGGA CCGGAGAAAGT GTGAGGCAGG | 1140 |
| GCCCCTACAG GCAGAGAGTG CCTGACAACC CAGAGAGATT CGACAGTCAG CCTTGTGTCC | 1200 |
| TGGGATGGGA GAGCTTCGCC TCAGGGAAAC ATTACTGGGA GGTGGAGGTG GAAAACGTGA | 1260 |
| TGGTGTGGAC TGTGGGGTC TGCAAGACACA GTGTTGAGAG GAAAGGGGAG GTCTGCTGA | 1320 |
| TTCCCTCAGAA TGGCTTCTGG ACCCTGGAGA TGTTTGGAAA CCAATACCGG GCCCTGTCCT | 1380 |
| CCCCTGAGAG GATTCTCCCT TTGAAGGAGT CCCTTGCGC GGTGGCGTC TTCCTGGACT | 1440 |
| ATGAAGCTGG AGATGTCTCC TTCTACAACA TGAGGGACAG ATCACACATC TACACATGTC | 1500 |
| CCCGTTCAGC CTTTACTGTG CCTGTGAGGC CCTTCTTCAG GTTAGGGTCT GATGACAGCC | 1560 |
| CCATCTTCAT CTGCCCTGCA CTCACAGGAG CCAGTGGGT CATGGTGCCT GAAGAGGGCC | 1620 |
| TGAAACTTCA CAGAGTGGGG ACCCACCAGA GCCTATAGAA TCAATTCTT GGACTCACAG | 1680 |
| CCATGCAGAT AAGCCCTGGC CATCTCAGCA GCCACCGCAC AACCCCCCTA ATGAAAGACA | 1740 |
| CGCCCTCCCT CCCTCTGGTC ACGTAAGAGA ACATCTTCCA GCTGCCTTT TCACACCCAC | 1800 |
| TCCAGCCCTC TGCCCCAGTT TTCTCCTCCT CACTAGTCTG TGGCTTTAGT AGTCCTTTG | 1860 |
| CTTGTAAATTA TGGGATGGGA TCCAGGCATA GGGAACTAGT TGTTTCATAG CTCCCAGTCA | 1920 |
| AAAAGAAAGT GAGAGAAGCT GTTGGGCAGT GAACCTACTG TTTAAATCA GGATAACCAC | 1980 |
| ATTAAGCCCA ATATGCCAGT TGGCACCAGA TGCTGTGGAC TTGGAATGAG GCCAACAGGG | 2040 |
| TTCACCAGGA TGAGAGAGGA GAGAGGAATC CACAGGACCA CCAGAAGGGA GAGGGAACCA | 2100 |
| GATATGCAGA TCAGAGATAG AGGAAGTGGA ACCAGAGAGC TGGGAGGGAC CAAGGTTGTA | 2160 |
| AGGATGGCTA AGTCCCACCA TAAGAGCTAA AGGGTCCTGG GAGATGATGG CTCATTCCA | 2220 |
| CCCAACCCCA GGATTTCAC AGCACACACC CACAGGCCTG GACCTGGGAT GAAGATGAAT | 2280 |

| | |
|-------------------------------------------------------------------|------|
| GAAGAACATG GACTCATGTG GATGTGGTT GGCTCAGATG TCCCTGCAAT AAACAAGGGG | 2340 |
| TCAGTACTTA GTCCCTGAGT GTGGTTGAGG TTTGAGGTCC TGGTCGAGCA GGGCAGTACT | 2400 |
| GGACCAGGTC TACGTCAGCA TTCAGGTTCA ATGGGGACAC CAGTGGCTTC AAACTTCTG | 2460 |
| ATCTAATTAT GTTTTAGAC ACTTAGAAGT TATTGAGGAC TTTAAAGAGC TTTTGTAT | 2520 |
| TTGGGTTAAT ATTTATGACA TTTGACATTG AAACAAAAAT TTAAAATGTT ATCTTTAAT | 2580 |
| TTATGTTAAA ATAGCATTAA TAAATCAGTT ATAGGTTAAT GTAGATAGGA TGTTTGTGA | 2640 |
| AAAAGCAATC TATTGTGTCC AAATAAAAAA AACAAAAAGT GTGACACTGG TTAACTTTT | 2700 |
| CCAGATCTCA TGTCTGGCTT AATAAGAGAT ATTTGTATTA TCATATCTGC CTTGTATTA | 2760 |
| AACCTATTGG TATATCATAG GTCATGTTAG CTCAAAAAAA CTTTACTGCA CACTACTGAG | 2820 |
| AGAATGAGAT GAAAAACGAT TAATGTTCA TTATTATTAT TGTGAAAATA TTATTAACAC | 2880 |
| TGGGGACTCC TTAAGAGTAC ATCAGAGTTC TCTCTAGGAA TCCCCAAACC ACATTTGAA | 2940 |
| ACTAGAATAG TGGATCCTGG AAGTTAATCC ATGTGCTGGT TAATTTAGA TGTCAACCTG | 3000 |
| GTGTTCCAG AAGAGATTGG CAAGTGAGTC AGTGGGAAAT TCTCTCCTTC TGTTGGCTGG | 3060 |
| GTGCCCAATA CAACAAAAAG GCAGAGGAAA GGCAAATTCT TCTCTCCTCT GGAGCTGAGA | 3120 |
| CACTCTTCTT CTTCTGCCCT TGGACATCAG AACTCCTGGC TCTCCGGCCT TTGAACCTCA | 3180 |
| GGACTTGTAC CAGGAGGCC C TGGTTCTCA GGCCTTGGC TTTGGACTGA GAGTTACACA | 3240 |
| ATCAGCTTCC CTGGTTCTGA GGCTTCAGA CTTAAACTGA GCCATGCTAC CAGCATCCC | 3300 |
| GGGTCTCCAG CCTACAGATG AGCTGTTGTG CGATTCTTA GCCTCCATAA TCACATGAGC | 3360 |
| CAATCTCCTT AATAATGCC TGCTCATAGA TCTGTATCTA CATCTATATC TGTATGTGCA | 3420 |
| TCTATATCTA TGCCTATATC TATATCTATA TCATATTGAT TTTGTCTCTC TGGAGAACCC | 3480 |
| TGACTAATAA AATGAGGCAT CT | 3502 |

(2) INFORMATION FOR SEQ ID NO:17:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2854 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..2854
- (D) OTHER INFORMATION: /note= "cDNA 27"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

| | |
|-------------------------------------------------------------------|----|
| GACCCACGCG TCCGAAAAGC TATGGCCTCA ACCACCAGCA CCAAGAAGAT GATGGAGGAA | 60 |
|-------------------------------------------------------------------|----|

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|------------|--------------|--------------|-------------|------------|------------|------|
| GCCACCTGCT | CCATCTGCCT | GAGCCTGATG | ACGAACCCAG | TAAGCATCAA | CTGTGGACAC | 120 |
| AGCTACTGCC | ACTTGTGTAT | AACAGACTTC | TTTAAAAAACC | CAAGCCAAAA | GCAACTGAGG | 180 |
| CAGGAGACAT | TCTGCTGTCC | CCAGTGTGG | GCTCCATTTC | ATATGGATAG | CCTCCGACCC | 240 |
| AACAAGCAGC | TGGGAAGCCT | CATTGAAGCC | CTCAAAGAGA | CGGATCAAGA | AATGTCATGT | 300 |
| GAGGAACACG | GAGAGCAGTT | CCACCTGTTC | TGCGAAGACG | AGGGGCAGCT | CATCTGCTGG | 360 |
| CGCTGTGAGC | GGGCACCACA | GCACAAAGGG | CACACCACAG | CTCTTGTGA | AGACGTATGC | 420 |
| CAGGGCTACA | AGGAAAAGCT | CCAGAAAGCT | GTGACAAAAC | TGAAGCAACT | TGAAGACAGA | 480 |
| TGTACGGAGC | AGAACGCTGTC | CACAGCAATG | CGAATAACTA | AATGGAAAGA | GAAGGTACAG | 540 |
| ATTCAGAGAC | AAAAAAATCCG | GTCTGACTTT | AAGAATCTCC | AGTGTTCCT | ACATGAGGAA | 600 |
| GAGAAGTCTT | ATCTCTGGAG | GCTGGAGAAA | GAAGAACAAAC | AGACTCTGAG | TAGACTGAGG | 660 |
| GAATATGAGG | CTGGTCTGGG | GCTGAAGAGC | AATGAACTCA | AGAGCCACAT | CCTGGAAC | 720 |
| GAGGAAAAAT | GTCAGGGCTC | AGCCCAGAAA | TTGCTGCAGA | ATGTGAATGA | CACTTGAGC | 780 |
| AGGAGTTGGG | CTGTGAAGCT | GGAAACATCA | GAGGCTGTCT | CCTTGGAACT | TCATACTATG | 840 |
| TGCAATGTTT | CCAAGCTTTA | CTTCGATGTG | AAGAAAATGT | TAAGGAGTCA | TCAAGTTAGT | 900 |
| GTGACTCTGG | ATCCAGATAC | AGCTCATCAC | GAACTAATTG | TCTCTGAGGA | TCGGAGACAA | 960 |
| GTGACTCGTG | GATACACCCA | GGAGAACATCAG | GACACATCTT | CCAGGAGATT | TACTGCCTTC | 1020 |
| CCCTGTGTCT | TGGGTTGTGA | AGGCTTCACC | TCAGGAAGAC | GTTACTTTGA | AGTGGATGTT | 1080 |
| GGCGAAGGAA | CCGGATGGGA | TTTAGGAGTT | TGTATGGAAA | ATGTGCAGAG | GGGCACTGGC | 1140 |
| ATGAAGCAAG | AGCCTCAGTC | TGGATTCTGG | ACCCTCAGGC | TGTGAAAAAA | GAAAGGCTAT | 1200 |
| GTAGCACTTA | CTTCTCCCCC | AACTTCCCTT | CATCTGCATG | AGCAGCCCT | GCTTGTGGGA | 1260 |
| ATTTTCTGG | ACTATGAGGC | CGGAGTTGTA | TCCTTTATA | ACGGGAATAC | TGGCTGCCAC | 1320 |
| ATCTTTACTT | TCCCGAAGGC | TTCCTTCTCT | GATACTCTCC | GGCCCTATTT | CCAGGTTTAT | 1380 |
| CAATATTCTC | CTTTGTTCT | GCCTCCCCCA | GGTGAACAAAG | GAAAAGAGCA | GAAGCTCCTT | 1440 |
| GGTTTAACCA | GCACAGAGAA | AATAATATAA | ATCCCATAAG | GGCAGACGTT | TGGCTGT | 1500 |
| TCTTCGCTGT | CATTTCTTA | GTAGTTAGAC | TAGTGTGAG | ATTTAGTGG | ATATATAATT | 1560 |
| GATTTATGTT | GAATATATGG | ACTTAGCAAC | TAAAAAATACC | ACAGATGGTT | AACCTGGACT | 1620 |
| GGGGCAAAGC | AAGATAATAG | TGATGATCGT | ATGTTGCTGT | CTCCATCCGT | CTTTAATGGG | 1680 |
| TCAGGGCTTT | GATTCCAAG | GGTCTTCAGG | TGATGAGTAG | GGGTACCCAC | AAGTCAGAAG | 1740 |
| GTCTGCGTTC | TCCTAGTTG | TTTGCTGCCA | TTTGAACATCA | TGTAGGGAAT | GAAAGAAAGC | 1800 |
| TGCAATTATC | CGCCAACACTGC | ATTAAAACA | AAACAAAACA | GAAAATCAA | AATAACATTG | 1860 |
| ACTCTTCCAA | CCACTGACAT | GTTGTTAAT | AATCTAAGCG | GCAGTCCTGG | AGGCTACCAG | 1920 |

| | |
|--------------------------------------------------------------------|------|
| ACTTACTGAG TTCTACCTGA GAAACAGCCA AGCAAAGTGT GAGAGAAGGG TTAAGACTGG | 1980 |
| CTTACAATGA GATGCTTCAA ATGAAAAGGG AATTATGAGT AAAATTGAAC TTTGATGGGG | 2040 |
| GATTCAAGTTC TGGAAAAGAA TTTGGTATTG TCCAGTCTGC TAGGACCAAT TACCTTGAAA | 2100 |
| TATTTTAAAAA TCTCAGTAAA TAGTTATTGC TGAAATGGCT GTTGGCAGTT CTTATTATGA | 2160 |
| TTCAGAGAAG AGCAAATAGA CCTTAACCTTC ATTTGAAAA AGACCAAATT ACCATAACCG | 2220 |
| AGTGAGTAAT GACAGGACTA CAACTAAAAC ATAAACAACA TTAATGATGA CCATAAAAAG | 2280 |
| TCACAAAATT GCTAAATGTT ATAATTAGA GTTGACATAA AAATTGATGG CCAGGCATGG | 2340 |
| TGGCTCACGC CTGTAATCCC AGAACTATGT GAGGCTGAGG CAGGTGGATC ACTTGAGGTC | 2400 |
| AGGAGTTCAA CACCAGCTG GCCAACATGG TGAAACCCTG TCTCTACTAA AAATACAAAA | 2460 |
| ATTAGCCGGG CATGGTGGTA GGGGCCTGTA ACCCAGCTAC TCGTGAGGCC AAGGCAGGAG | 2520 |
| AATTGCTTGA GCCTGCAGCA GCTGCAGTAA GCCAAGATCA TGCTGTGCCT CAAGGAAAAAA | 2580 |
| AAAAATTAAT GTTTACTGAT ATTTGTTGAA GTCCTACAAC ATCACCTCTG AGAATAGGAG | 2640 |
| AAATGAAGCA ACAGTTGTGT CTAGATGTCA GAGGCATGGC TGGGCCTCCA TCTCTGCCTA | 2700 |
| AGGGAGATAT AAAAGAGTTC AAACTATTGC CCATGTTCCC CAGGGTCAGA AGTTCTAATT | 2760 |
| ATGATGATAG AGGCTGGTT GTAAGTAGTA AGTGAAGGGT AGCAGAATAT GCCATCTTG | 2820 |
| GCATAAGAAG TATTTGAGT TGAAGACAAT TGAG | 2854 |

(2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..2266
- (D) OTHER INFORMATION: /note= "cDNA 22B"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

| | |
|--------------------------------------------------------------------|-----|
| GGACAGAAAA CTCCCTCCTT TTCCAAGTTA GCCTTATAGT CTAGGGCTTA AAATACTGGT | 60 |
| TTAATGGTGA AGGTAAGTGC TTTTCTTCTT TTTGGGTAGA AGGATTATTA CTAACCTTACC | 120 |
| AAAGGTCCAT TAAGGGGAGG GAACAGTTT AGGAGAAGTC AGAGAAAAGA CATTAAACAGC | 180 |
| AACATAAGGA TCTCCATCTG GTAATATTGC CTAATTCAA AATGAAGAGA CTCTCTGAAA | 240 |
| AAGATAACTG ATTCAATGAA GACCCTAGGG CAAGGCTTGA GAAGCCACTG GTACCAATGG | 300 |
| ACACTGTGGA CAATGGTCAT TTCTCCAAGG ACGCTATAAA AGACTGTCGT AGTAAAAGAG | 360 |

| | |
|--------------------------------------------------------------------|------|
| ATTCAGGGCA CAGGGAACT CCACCACAAA GCGTGGTACC ATTTCCCACA GAAGCTAAAT | 420 |
| GGACGGGAAG CCTGCCACCA GGAAAGGTCC AGATTTCTGT TCATTACGCT ATGGGCTGGC | 480 |
| TCTTATCATG CACTTCTCAA ACTTCACCAT GATAACGCAG CGTGTGAGTC TGAGCATTGC | 540 |
| GATCATCGCC ATGGTGAACA CCACTCAGCA GCAAGGTCTA TCTAATGCCT CCACTGAGGG | 600 |
| GCCTGTTGCA GATGCCCTCA ATAACCTCCAG CATATCCATC AAGGAATTG ATACAAAGGC | 660 |
| CTCTGTGTAT CAATGGAGCC CAGAAACTCA GGGTATCATC TTTAGCTCCA TCAACTATGG | 720 |
| GATAATACTG ACTCTGATCC CAAGTGGATA TTTAGCAGGG ATATTTGGAG CAAAAAAAAT | 780 |
| GCTTGGTGCT GGTTGCTGA TCTCTTCCT TCTCACCCCTC TTTACACCAC TGGCTGCTGA | 840 |
| CTTCGGAGTG ATTTGGTCA TCATGGTTCG GACAGTCCAG GGCATGGCCC AGGGAATGGC | 900 |
| ATGGACAGGT CAGTTTACTA TTTGGGCAAA GTGGGCTCCT CCACTTGAAC GAAGCAAGCT | 960 |
| CACCAACCATT GCAGGATCAG GGTCAGCATT TGGATCCTTC ATCATCCTCT GTGTGGGGGG | 1020 |
| ACTAATCTCA CAGGCCTTGA GCTGGCCTTT TATCTTCTAC ATCTTTGGTA GCACTGGCTG | 1080 |
| TGTCTGCTGT CTCCATGGT TCACAGTGAT TTATGATGAC CCCATGCATC ACCCGTGCAT | 1140 |
| AAGTGTAGG GAAAAGGAGC ACATCCTGTC CTCACTGGCT CAACAGCCC GTTCTCCTGG | 1200 |
| ACGAGCTGTC CCCATAAAGG CGATGGTCAC ATGCCTACCA CTTTGGGCCA TTTCTGGGG | 1260 |
| TTTTTCAGC CATTCTGGT TATGCACCAT CATCCTAACCA TACCTACCAA CGTATATCAG | 1320 |
| TACTCTGCTC CATGTTAACCA TCAGAGATAG TGGAGTTCTG TCCTCCCTGC CTTTTATTGC | 1380 |
| TGCTGCAAGC TGTACAATTT TAGGAGGTCA GCTGGCAGAT TTCCTTTGT CCAGGAATCT | 1440 |
| TCTCAGATTG ATCACTGTGC GAAAGCTCTT TTCATCTCTT GATATGCAAG TTTCTCATG | 1500 |
| GGAATCTCAA GGGGATTGG GCTCATCGCA GGAATCATCT CTTCCACTGC CACTGGATTC | 1560 |
| CTCATCAGTC AGGATTTGA GTCTGGTGG AGGAATGTCT TTTCTCTGTC TGCTGCAGTC | 1620 |
| AACATGTTG GCCTGGTCTT TTACCTCACG TTTGGACAAG CAGAACTTCA AGACTGGGCC | 1680 |
| AAAGAGAGGA CCCTTACCCG CCTCTGAGGA CATAAAAGTTA CAAACTTAAA TGTGGTACTG | 1740 |
| AGCATGAACT TTTTAAACAT TTTTACTTC TCTCCATATT CCTGACCATA GACTCAGCAG | 1800 |
| TTCTTAACTC TGGCTGTGTG TTAGTCTTCC CTGGGGAGCC TTTATAAGAC ACTGATACTT | 1860 |
| GGGACCCACT CCAGAGATTC TGAATGAATT GGTCTGGGGT GGAACCCAGA TACTACTAAT | 1920 |
| TTTAGATAC TCCTTAGAGG TTTCTAGCAT GCGCCCGGGG TTGACAAACAG CTGGACAAAC | 1980 |
| TTGAAAAGTC AATTGATGTG GCCTTGAAT TTTCTCATT GGAAAGTACT AAATAAATAA | 2040 |
| AAATTGATGT GAAAATGATC ACTGATAAT ATCTTCATGG TGGGGCAGGT TATTGGATGC | 2100 |
| AGAGAAGATC TGCTCGGAAT TGTAGCCATA TGTTACAGAT CTCAGCACCG ATCAGAACTG | 2160 |
| TAAAGCTATA ATCCCCAGAA TTAAAGTTT TATTATTTT TATACATTGT AAAACATAGA | 2220 |

CGTTTATTAA TGTGATTAAA TTCTATTAAA ATTTACATGC TAAAAT 2266

(2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1780 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..1780
- (D) OTHER INFORMATION: /note= "cDNA 22E"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|------|
| ACGCGTCGGC | CCACCGCGTCC | GCCCACCGCGT | CCGGTCGGGG | CCAGAGCGCA | GGTGTACCTG | 60 |
| CGGGCCGTGC | TGGAGCACCT | GACCGCCGAG | ATCCTGGAGC | TGGCTGGCAA | CCCGGCCCGC | 120 |
| GACAAGAAGA | CCCGCATCAT | CCTGCGCCAC | CTGTAGCTGG | CCATTGCAA | CGGCGAGGAG | 180 |
| CTTAACAAGC | TGCTGGCGA | AGTCACCATC | GCGCAGGGCG | GTGTCCTGCC | CAACATTCA | 240 |
| GGCGTGCTTC | TGCCCCAGAA | GACCAAGAGC | CACCACAAGG | CCAAGGGTGA | AAACCATTCA | 300 |
| CTAGGAGAGG | AGAAACACAA | TGGCCACCAA | GACAGAGTTG | AGTCCCACAG | CAAGGGAGAG | 360 |
| CAAGAACGCA | CAAGATATGC | AAGTGGATGA | GACACTGATC | CCCAGGAAAG | GTCCAAGTT | 420 |
| ATGTTCTGCT | CGCTATGGAA | TAGCCCTCGT | CTTACATTTC | TGCAATTCA | CAACGATAGC | 480 |
| ACAAAATGTC | ATCATGAACA | TCACCATGGT | AGCCATGGTC | AACAGCACAA | GCCCTCAATC | 540 |
| CCAGCTCAAT | GATT CCTCTG | AGGTGCTGCC | TGTTGACTCA | TTTGGTGGCC | TAAGTAAAGC | 600 |
| CCCAAAGAGT | CTTCCTGCAA | AGTCCTCAAT | ACTTGGGGGT | CAGTTGCAA | TTTGGGAAAA | 660 |
| GTGGGGCCCT | CCACAAGAAC | GAAGCAGACT | CTGCAGCATT | GCTTTATCAG | GAATGTTACT | 720 |
| GGGATGCTTT | ACTGCCATCC | TCATAGGTGG | CTTCATTAGT | GAAACCTTG | GGTGGCCCTT | 780 |
| TGTCTTCTAT | ATCTTTGGAG | GTGTTGGCTG | TGTCTGCTGC | CTTCTCTGGT | TTGTTGTGAT | 840 |
| TTATGATGAC | CCCTTTCTCT | ATCCATGGAT | AAGCACCTCA | GAAAAAGAAT | ACATCATATC | 900 |
| CTCCTTGAAA | CAACAGGTG | GGTCTTCTAA | GCAGCCTCTT | CCCATCAAAG | CTATGCTCAG | 960 |
| ATCTCTACCC | ATTTGGTCCA | TATGTTAGG | CTGTTTCAGC | CATCAATGGT | TAGTTAGCAC | 1020 |
| AATGGTTGTA | TACATACCAA | CTTACATCAG | CTCTGTGTAC | CATGTTAAC | TCAGAGACAA | 1080 |
| TGGACTTCTA | TCTGCCCTTC | CTTTTATTGT | TGCCTGGTC | ATAGGCATGG | TGGGAGGCTA | 1140 |
| TCTGGCAGAT | TTCCCTCTAA | CCAAAAGTT | TAGACTCATC | ACTGTGAGGA | AAATTGCCAC | 1200 |
| AATTTAGGA | AGTCTCCCCT | CTTCAGCACT | CATTGTGTCT | CTGCCTTACC | TCAATTCCGG | 1260 |

| | |
|--------------------------------------------------------------------|------|
| CTATATCAC A GCAACTGCCT TGCTGACGCT CTCTTGCAGA TTAAGCACAT TGTGTCAGTC | 1320 |
| AGGGATTAT ATCAATGTCT TAGATATTGC TCCAAGGTAT TCCAGTTTC TCATGGGAGC | 1380 |
| ATCAAGAGGA TTTTCGAGCA TAGCACCTGT CATTGTACCC ACTGTCAGCG GATTTCTTCT | 1440 |
| TAGTCAGGAC CCTGAGTTG GGTGGAGGAA TGTCTTCTTC TTGCTGTTG CCGTTAACCT | 1500 |
| GTTAGGACTA CTCTTCTACC TCATATTGG AGAACAGAT GTCCAAGAAT GGGCTAAAGA | 1560 |
| GAGAAAAC TC ACTCGTTAT GAAGTTATCC CACCTTGGAT GGAAAAGTCA TTAGGCACCG | 1620 |
| TATTGCATAA AATAGAAGGC TTCCGTGATG AAAATACCAAG TGAAAAGATT TTTTTTCCT | 1680 |
| GTGGCTCTT TCAATTATGA GATCAGTTCA TTATTTATT CAGACTTTT TTTGAGAGAA | 1740 |
| ATGTAAGATG AATAAAAATT CAAATAAAAT GATAACTAAG | 1780 |

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..246240
- (D) OTHER INFORMATION: /note= "HLA-H.CONTIG"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

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|--------------------------------------------------------------------|-----|
| TTTGTAAGTA TTCTATTTA TTTATATGTG TTTGTGTTTC TGAGTATGTC CTGAGTTGCA | 60 |
| CGATAATACT ATATTCTTA TTGGGTAACA TTGTCAGAAA AGTTTCTAAA AACCTTCTCT | 120 |
| GCTGCACTTA TTTTATACAT TTTATTTATG TTAATAATCT CACATTTAAC ACACATTATGA | 180 |
| TTTATTCTCA ACAGAAAAAG GTGGTATTTC TTTCATTTAG TCTTTAAAA AGCTCACATT | 240 |
| ATCAAATGAT TGCTCAATCA TTTAATCTCT TTGCTTCTCT TATATGCATT GATTTAATAA | 300 |
| ATATGTATAC TAGTTCTCC ATCGATTCTT TAGATTTGAA ACTTATTTC CTTTTATTCT | 360 |
| TACAAAAC TG ACTTGTCTAT AGGCCACTT CTACTCCTT TATTCTATCA TCTTCCTCAA | 420 |
| CTTATTCTGT GGTCAAAGAA TGGAGAAATA ATATTAATAA TATGTTTTC TCATCAATGA | 480 |
| CTTCCACCTG TTCTCTGAGA AATTCAAGCTT CAAGAACTTT AGTTGATAT GACTGCAAAG | 540 |
| ATAATACACA GTCTAAATCA TAAAATGTC TCAAAGGTTT TTTTTTATT TGTTCTTTG | 600 |
| AAATATCCAT GAACAGGCAT GTTCTCCCC CTGTAGTGCA ATTGTGTGA AATTCTGGCA | 660 |
| TGCACTTAAG AGGATGTCTT AAAATACCAA TATTTAATTG ATTCTAAGTC ATGTATTGTA | 720 |
| TCACATTTT GCCCATGGAT TGTTGAAATC CATGGACAAA ACTGATAGCA TTTTAGAACT | 780 |

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|---------------------------------------------------------------------|------|
| TCCTTTGTCT AGTGGCAGTC TTGATATATT CACACTATCT ATTGACAAAA AATCTAAAGC | 840 |
| ACCAGGCTCA AAGCTTGTAG AGTAGGTGTC AGTGATTGAGGACATCTC TAGGGCAATA | 900 |
| GTAGAGGCAT TTTAACCCCC TAACAACCAA ATGATCATCA GAAGTGAGTG ATATCCTCAC | 960 |
| TCATGACCCC AACTGCTCTA ATTTCTATTG TTTTCTTGCA GAAATGAGAG CAGGTGGGGT | 1020 |
| CATGGGTGAG GAATGAGGTG TTGAAAGTGA ATGGGGTGT GAAAGCAAGG TGTTTAGCAG | 1080 |
| TGTTCTGAAA GCATACATTT AAGTAGGCTA TCCGGGCACT GTCAATAGCT AAGTGTCAAG | 1140 |
| CTAAGTACTC TATTTTATTC TAAGAACTAT TTTAGAAAT GCTGAATCAA CAAATCTCAG | 1200 |
| ATGGCACAGA GGTTGTCATT TTTGAATAAT ATGAATATCA GTAATTTAG TTGGAAAAGA | 1260 |
| AGATTTCAA AGAGCCATCT AAGTTCCAA AATAAGTGT GCAGTCATAT TAACTATTAT | 1320 |
| ATTTTCTGC CTGTTGATCT ACTGCCGTG AATTGCTTAT CAAACCAACA ACCAACTGGA | 1380 |
| ATACATAGAC TGCATGTCTT GTTCATTCC TGCATTCTCA AGTAATGGTT TAACAAACTC | 1440 |
| ATGAGCTTAC TCTTTAATCT GAACCATGCT TAACTTCAT TATGTTGATT TAGTCTAAGG | 1500 |
| ATGCAGAAATT TATTTTATAG TTATGTAGGA ACTGGAATCC AAAATGTAAT ATGCCCTCAA | 1560 |
| GCTTTCTTT GTTGGCCTCT GAAGGAGCAT CACCTCPACA ACTTCACGT TGTTATGAAT | 1620 |
| ACCTCTGGGG AGGTGTTCAC CTCAGGACCC AAATTGGAA AAAGGGAAGT GCCACTTTGG | 1680 |
| AGGAGTGCTC TGAGCAGCTG ATCCATTAAA TGTCCTCGATC ACATGCACGT GGAAGTGTCA | 1740 |
| TTGCAATATC TGCACTAACA GAAGCTCAGT GACTTGAGAA GTGAGTCTGG AATTCTAAGA | 1800 |
| AAAAGGCAAG GCATCTCTCT TGCCACTTGT TATTTTCCA GTCAAGCAAC TGTGATAAGA | 1860 |
| GGGCATGGAG AGCAGGAAGA AGTAAAAAT CCCAGGAAAG TCTGGAGTGG AATCATTAAA | 1920 |
| CCAATTCTGC TCCCTCTCTA GGCCAACTTG GGCCTATTAT GAATAAGGAG GTCTCTTATA | 1980 |
| ATCCATCTAA CTCCACTCAG GAACAATTG GGGATCTGAG ACTGTGAAC CAGTGGCAA | 2040 |
| AAAAATATTT CTTGGCCTAT CATTATTCTC TGTAGGATGT TAAGGACAGG TTTCTGTATG | 2100 |
| TGGAGTCCTC AGTTTTGCC TTCTCTCCTT GAGATATTT TATGCTATTT AGTAATTGAT | 2160 |
| GGCCACAGTT GATCGACCAC ATTTCTGGGC AACTCTAATA ATCCTTGTAA TATTAATCAT | 2220 |
| TGGACCAATC TTGATTGTGT ATGACCATCA TCTTGTAGCT ACCACCTCTA TGTGGATGCT | 2280 |
| CTCCTCACCC TGCTTAAGTG CCAATGTCTG TGCTATGGGC CTACCTGTCA CATGGATAAT | 2340 |
| CTCTTCACTC CAGTCAGGCT CCAACATTAA CACAGGGCTG TTCTCTTGTC CCCCTTGAA | 2400 |
| GACAGCTTCA TCACCCATTAA CAAGTTGCAG TACTCTCACT GGGCCTCCAC TGTTGCCTCT | 2460 |
| CTCTCACTCT GCTTAGGTTT CTTCACTCCA CTCCAGGCAA CTGTCACTAA ACATCCTTTC | 2520 |
| CCCCATATAT AACACAGACA TCTACCTTGC TTGGCCAAAC CCACTGGATT TCAGACTCAC | 2580 |
| TCATTCAAGAG AGTAAGACAG AGAGGGGTTCA ATTTTTTATT TTATTTTATT TTTTATTTTT | 2640 |

| | |
|--------------------------------------------------------------------|------|
| TGAGACGTTG TCTCACCCCTG TCGCCCAGGC TGGAGTGCAG TGGTCAGTC TTGGCTCACT | 2700 |
| GCAATCCCCA CGTCCCAGGT TCAAACGATT CTCCTGCCTC AGTCTCCAA GCAGCTGGGA | 2760 |
| TTACAGGTGC CTGCCACCCT GCCCAGCTAA TTTTGTTATT TTTAGTAGAG ACAGGGTTTC | 2820 |
| GCCGTGTTGG CCAGGCTGGT CTCGAACCTCC TGACCTCAAG TGATCTACCC GCCTCGGCCT | 2880 |
| CCCAAAGTGC TGGGATTACA GGTGTGAGCC ACTGCGCCA GCCGGGGTTC ATCCTTAATA | 2940 |
| CATACATTAG AGATATAGAT TCTGTTTTA TCTAAAAAGT CTTTATAAGG CCGGGCGCGG | 3000 |
| TGGCTCACGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CGGGCGGATC ACGAGGTCAG | 3060 |
| GAGATCGAGA CCATCCCGGC TAAAACGGTG AAACCCCGTC TCTACTAAAA ATACAAAAAA | 3120 |
| TTAGCCGGGC GTAGTGGCGG GCGCCTGTAG TCCCAGCTAC TTGGGAGGCT GAGGCAGGAG | 3180 |
| AATGGCGTGA ACCCGGGAGG CGGAGCTTGC AGTGAGCCGA GATCCCGCCA CTGCACTCCA | 3240 |
| GCCTGGCGA CAGAGCAAGA CTCCGTCTCA AAAAAAAA AAAAAAAA AAAAAAAAGT | 3300 |
| CTTTATAAAA ATCTGATTGA ATGGTTGAAT GCTGTGCTAA AATCTGCATA ATATCTTACA | 3360 |
| ACACTTCTGT GAATCACGAG ACAGTTTGAA ATGCTAAATG TCAGTTAACAA GATCTAAAGG | 3420 |
| GACCAACATC TGCTTCCCA AATTATATGA AAGAAGATCC TGATCCCTCA TCAGGTGAAA | 3480 |
| CTCACATCAG ACAACAGTGT CTGCATTTCT CCAAAACCCG CCTCAGCCCC ATGCCACTT | 3540 |
| TCCAGGGTTA TCCTGCCTAC CAAGCACTCT CTTTCCTCAG AAAAAACTTGG GGGAAAATGT | 3600 |
| AGAATAATAA TTTTTGAAAG TTCTGACCAA CTTCTTGAAT CACTCAGCAT GTTTTGACT | 3660 |
| GCAGGTACAG AAAACGCTGA CTCAACAAAT TTAAACACTA TATAAATTTC TTATCTCCCC | 3720 |
| AAACAGGACA TCAAAGGCAG AAAGGTTCCA GAGCAGGGTG ATCAGAGCTC TGGCTCCACT | 3780 |
| GCCCTCAGTC TTCTGCCTC TGCTCTCCTT CACAGCAGGC TTTACCCCCC ATGCTGGTCA | 3840 |
| CAGTTCAAG TGTCCATGCA GACACAAGTT AAAGGCAGGA AGAAACAGTG CGTTTCTCTT | 3900 |
| GGAGATCAAG GAATGCCTTT CCAGAAAACT CCCCTTATG TCTCATTGTC CAAAACTTGG | 3960 |
| CCTAGTCTCA GGTGCTGCCT GAGCTAATCA GCTACAGAAG AAGGGACCAC ATGACTGGTG | 4020 |
| TGGACCAGTC AGAATTCAACC ACATGAAGCT AGTAATGTGG CTCACACTTC CCAGGGGGAT | 4080 |
| ATGGCCAGGT AGCAGACAGT GGATCGCTGA ACAGAAACT GATAGATTTC AGCACCAAGG | 4140 |
| TTAGAATGGC TACCACACCT AATCCCACCC TATCCCCGTT TCCTTCTTTA ATTTTTCCA | 4200 |
| TAGCACTTAT CAGTAGCTGA CAAACTGTAT ATGTTTTAC TTTTTTATTG TCTGTAGCTC | 4260 |
| CCAAGTAGAA TACAAACATC TGAAACTCAC TGTATCCATC CTGAGTAATG TTCTTTTCAG | 4320 |
| CTCAGTCACA ATCATTTTT GATAGCCTAT CCTATAAGCT TAACTTATAG TGTAAATCAG | 4380 |
| TATTAATACA TCTTAGTGGG AAAGAAGGAA AAAATAAACG ATCACACACA CACACACACA | 4440 |
| CACACACACA CACATACATT TACGTAACAG AGCAAGTGTG AAAATACCTA AAGGCTTTAT | 4500 |

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| AGCTCCTTTT | GTCAATGGAT | ACATGACAGC | ATTTTGGCA | TTCTTACTA | CTCTTATTCT | 4560 |
| ATGCTCCATT | TGTCTTCAGT | CAGCACCTA | GCTGCCCTA | TGTTTACTT | GGTAAGGCAA | 4620 |
| ATTCCTAAAT | GAGCCTGGTA | ATTAGTCATC | CAGCTTATAG | GAAGGTACTA | TAGTTTTCA | 4680 |
| TTAACCTTTT | CACTGGGCTT | GAGAGTAGTA | AGGACTCCC | GAGAATTCC | TGTGTTCCAA | 4740 |
| AAGTACTTCT | CCTTGACATC | TTGGTATAGG | ATTAATAACT | GTTTACCTTT | GATAATCAGG | 4800 |
| AAGAATGACT | CCAGCTAGTA | CAGTTACGTG | ATGCCTATAC | ATTCTTTTT | TTCTGGGAAA | 4860 |
| AATGTAATGT | GAAATTAAGT | GCAAAAACCA | TGCCTTGT | ATGTATGTAT | CAAACACTTC | 4920 |
| TAGAGCTTTC | CCAATACAGT | TCTCTCTCA | GCAAACAAGA | GGACTATACC | CTCATCCCCA | 4980 |
| CCCCTGCACT | TAGGTGTAGC | CAATGTGTTG | TAACCTAAAG | AGGAGAGGGC | ACTGGATGAA | 5040 |
| GGGAAATCTG | TCTAACAAAGC | TTCTTATTT | CACCTAGTGG | AAAAAAAGCCT | TAATCTGCAG | 5100 |
| TGGGGCAGTT | TTCAAGGACA | TAGACTGAAT | TGGCTCATGC | ATTTATGGAA | GATGAGGAGT | 5160 |
| CCCATGATCT | GTAATCTGCA | AGCTGGAGAC | CCAGGAAAGC | TGGTGGTATG | ATTCAAGTCTG | 5220 |
| AATCTGAAGG | CCTGAGAAC | AGAGGAAC | ATGATGTAAA | TCCCAGTTCA | AGAGCAGGAG | 5280 |
| ACCAGATGAG | ATGTCCCAGC | TCAAGCAGT | AGGCAGAAAA | AAAGGCCAA | ATTCCCCCTT | 5340 |
| CCTCTGCCTT | TTCTTCTATT | CAGACCCTGA | ATATCAGGTG | GCATAATGCC | ATCCACACTG | 5400 |
| GGAAAGACAG | TTTACTTAC | TAGGATCACC | TATTCAAAGG | CTAATCTCAT | CCAGAACAC | 5460 |
| GCTCACAAAC | ACAGCCAGAA | ATAATGTTA | ACCAGATAGC | TGGTTATCCC | CTGACTCAGT | 5520 |
| CAAGTTGACA | AAAAAAATGA | ACTATTC | AGCTTACTGT | AATCAACAGT | TTTGTCAAAA | 5580 |
| AGATAGACAC | AAATCAGTGG | AATGAGATAA | ACAGTCTAGA | AATAAACCAA | AAAAAATATT | 5640 |
| GCCAACTAAG | GCAAAGGTAA | TCAATGGAA | AAAGATAGTC | TTAGCAACAA | ATAGTACTGG | 5700 |
| AACACCACAA | TGTGTTAATA | AAAGTAAACT | GGAGACATCT | CTCACACCTT | ATACAAAAGT | 5760 |
| AACTAAAAAT | AAATCAAAGG | ACTAGATGTA | ATGTATCAA | CATTACATCT | TTTACAATGT | 5820 |
| ATCAAACATT | ACAAGCTTT | AGAATAAAAT | ATAGAAGAAA | ATTTACATGA | TCTAAGATT | 5880 |
| GGCCCCAATG | AAGTTTAGC | TATAATAACA | AAAGTATTAG | TCATGGAAGA | AAACAAAATT | 5940 |
| GATAAGTTCA | GGTGGGCTAA | ATTAAGGGAA | AAAAATCACT | TTGCAGTAGA | GAAACCTGAA | 6000 |
| ACATTACCTA | AACCACATGA | TGAAGGTTAA | TATCAGTGT | GTCATGTGGA | TATCATGTT | 6060 |
| TCCCTAAAAT | GATGTGACAA | GAAGGGCCCT | TTGCCCTTGT | GGTATTATTT | AAAAAAATCT | 6120 |
| ATAACTCCGG | TGTAATTATG | AAAAAAAAGC | AAATGATCTT | CAGGACTGTT | AAGGTATG | 6180 |
| AAAGCAAGAA | AAGACTGAGA | CATTGTCACA | GACAAAAAAA | GAUTAGGGAG | ATATGACAAG | 6240 |
| AAAATGCAGT | GTGGTATTCC | AGATTGGACC | TTGGAACAGA | AAGAAAACAT | TAGTGGAAAC | 6300 |
| AGTGGTAAA | TCCACATAAA | GTCTAGGGTT | TGGTTAATAG | AGTTTCATGT | ATCAATGTGA | 6360 |

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| GTTGCTTATA TTTGACAAAT GTATCATAAT AATGTAAAAT CCTAACAAATG GGGGAAAGCT | 6420 |
| AGGTGAAAGA TATATGGAA CTCTCCTGTA CTGTCCTTG ACTATCTTG CAACTTCCT | 6480 |
| GAAAATCCAA ATTATTCTAA AACAGAAAAG TTCATGCTAT TAGAAGTGAG GATAGAGGTT | 6540 |
| ACCTTGAAGA AGCTGAGGTC TAGAAGAGAC CATGAAGGGT CTAATTAGCT AACACACGTT | 6500 |
| GAGTATCCCT TATGCTTAGA ACCAGAAGTA TTTCAGATT TTTCAGATT GGAATGTTG | 6660 |
| CATTATACTG AGTATCTCAA ATCCAAAAAT CCAAAATCTG AAATATTCCA TGAGCACTCC | 6720 |
| TTTGAGAATC ATGTTAGCAT TCAAAAAGTT GCCGATTTG GAGCATTG AATTCCAAT | 6780 |
| TTTTAGATTA GGAATACTCA ACCTGAGTAG AGGCTGCCTG CTAATTACCT GGGAGCTAAT | 6840 |
| TACATGGATA TGTCATTTG AGAAAGTTA GCTTGCTGAT ATGGATGATT TTCTGGATAA | 6900 |
| AAATTATACT TTGATAACAA TTCTTTAAA GGAGACAATA ATTATTAACT TTTAAGTACT | 6960 |
| TTTTAGCTCT ACAATTCAAGA ATTCTTTAGT GCTAAATATT ACATATTG AAACAAAAGT | 7020 |
| TTTGTAAATA TTTATTTATT TGTTTCCCCC CCCCTTTTT TTTTTTGAG ACAAGTTCTC | 7080 |
| ACCTTATTGC CCATGCTATA GTGCAGTGGG TGATTATAGC TCACTGCAGC CTCAAACTCC | 7140 |
| TGGACTCAAA GGATCCTCCT GCCTCAACCT CCCAAGTAGC TAGGAGTACA AGCATGCACC | 7200 |
| ACCATATCCA GCTAATTTCGTTT GTTTATTTCT ACAGAGGCAG GGTCTCACTA TGTGCCCAG | 7260 |
| GCTGATCTCA AATTCTGGC CTCAAGTATC CTCCACCTC TGCTTCCCAA AGCGCTGGGA | 7320 |
| TTACAGGTGT AAGTCATTGC ACCCAGCCAA AAGTTTATT TTAAACTTAT TATTATGAGC | 7380 |
| ATGTAACAGA TTTATGTGGT TTGAAATTCA AACCTACAAA AGAAAATAAT AAAAAGCTAA | 7440 |
| CAGATAGACA AACAAAAACA AAAGCAAAAC CCCACTGGC CATGCTCTCT AGTCCTCAT | 7500 |
| TTCTCTCTTG GAAGAAACCA GAGCAATGTT CCCTGTGTAT CCTTCCAGAG ATAATTTC | 7560 |
| AAAATACTTT TTTCTTTTA ACAGAAGAGA TGGTAGACTA CTTCTTTAA ATTAAATTAA | 7620 |
| TATACATTAA CTTGTTCTT TTTATTGCTA TAGAAAATGA AGTTGGGAA ACAGGAAAAA | 7680 |
| TGACCTAGTA TTATCATACT AACATACCAA AATTTCAG TTATATGTAT TTCTGTTTC | 7740 |
| AGTTTTTACCCAC CCACCTGTT TTTATTTGGT TTGAAATCAT AGTACAGATA AAAACTTGAG | 7800 |
| GCAGGTATT TAGACTTGTT TTTCTTTGT AACATAAAAC TTTGAGAGCA CCAGGAAATC | 7860 |
| TGGAAATATT CATTAGTTA TTCATAATTCA AAAATATTGT TATATCCACT TTGTGTCAGA | 7920 |
| CTATTTGTTA AGAACTAAC TAAAAGAAAA AGATGGGCT GGACATGGTG GCTCACACCT | 7980 |
| GTAATCCAG CACTTGGGA GGCTGAGGCG GGTGGATCAC CTGAGTTGG GAGTCAGGAGG | 8040 |
| AAAGCCTTGC CAACACGGTG AAACCCGTGTC TCTACTAAAA ATACAAAAAT TAGCCAGGTG | 8100 |
| TGGTGACACA CGTCTGTAAT CCCAGCTACT CAGGAGGCTG AGGCAGGAGA ATCACTTGAA | 8160 |
| CCCAGGAGGT GGAGGTTGCT GTGAGCCGAG ATCATGCCAC TGCACTCCAG CCTGGGCAGC | 8220 |

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| AAAGCAAGAT TCCATCTCAA | AAAAAAAGAT GATAACACCC | TCTGGGAGAT TACATTCAA | 8280 |
| TAGAACAAAT AAAGGTGTAG | AACCTAAGAT GTGACAAGGA | CACTGTTGG TGACTGATTC | 8340 |
| TTCCTGGAA CATTTATAAA | GGCTTCCTAG GGGAGGGCGT | GTTTGTGTAA GAGCTTTCCA | 8400 |
| GGTCAGAAAG TATGTACAGT | GGAAAATGTA TATGAAAAGA | CCGTGTTGG GAATCAGGGA | 8460 |
| TTATATATTG TGATTAGAGG | AAAGAGTCCT AGGGTTTGAT | ACCTACAAAG AATTAGAGTT | 8520 |
| TCTAGGTGCT TCTGGACATG | TGGATTGATG ACAGCAATAC | AAAAAATACA AAAATTAGTG | 8580 |
| GGGCATAGTG GTGAGCGCCT | GTAGTCCCAG CTACTTGGGA | GGCTGAGGCA GGAGAATAGC | 8640 |
| TTGAACCCGG GAGGCGGAGG | TTGCAGTGAG CCGAGATTGT | GCCACTGCAC TCCAGCCTGG | 8700 |
| GTGACAGAAC GAGACTCCGT | CTCAAAAAAA AAAAAAGAAA | AAAAGCAGGA GTTAGCAGAA | 8760 |
| AACCAACAAG ACATGGGAAG | GAGAGAGAGA GCTGCAACAC | CCAAGAGAAA AAATAGCAAT | 8820 |
| GCTGAAATCA AAGTATAATG | AAGGAGAGAG GATGCTGGAA | GCTATGAAAT TCTTCTGTG | 8880 |
| AGGCAATGGG GCAATGACCC | TAGAACTGCT GAGTTAGCAG | CAGTGACAGA CTCAGTGCCA | 8940 |
| AATCATATAT TAGAAAAAAA | AATCAGATAG AGGTAAAGTC | CAGATCCAAA GAAGAGGGTT | 9000 |
| TTTAGCAGTA AAGCAGACAG | TAGAACCCAC CCAGCTTCT | AGGGTGCAGG GGGCTCCCT | 9060 |
| TTCAGGCATC ATGAAACAGT | GGGGACCATA ACTAGGCATG | ATGGCTTCAG ATACAGGGCT | 9120 |
| TGTCATCTC TTGTTGTGGT | CAGGCACTGC CTAATGAGAG | CAACCCCTTC CAAATGCTAC | 9180 |
| TGCTGTGTTT AACTAGGGCT | CTTGATAATC TGACCAGCTT | CTGCTTACT GATTTAGGA | 9240 |
| GAAAAATGGA GCAACCTGCA | AGATGAGTGG GATTAGCTTC | GTGCTGTCTC CCATGCACAC | 9300 |
| CACTCATGCA CACTGGCGA | GCATGGCAGT TCCATTATT | TTGCACCCAG TTGTGATTTA | 9360 |
| AAAACTTTA ATTAATTAGT | CTTATTAGTC TTCAGTTGGA | TTTAAATGCC AAATAATAAC | 9420 |
| CTTCTACCTT GTAAGAGGAG | CCCTTTACC TAAAGCAAGG | CTTAAGTTG GATAAATTT | 9480 |
| GTCCTATTAA TTATTCATCC | ACAAGCTCTC TTAAAACACT | GAATACACAC TAAGAAGGCT | 9540 |
| CTCAGCACTC CGAATAGTGT | GATAAAATCAA AAGCCAGTAA | CTTCTCAAAG TCATTGTGTA | 9600 |
| TTAGTCAGGG CTCTCCAGAA | AAATAAAACC AATAGAACAT | ATATACATGG GCTTTACCC | 9660 |
| AAATGTCATC TTTCAATGA | GTCCTCTTGC CTGCTTAATT | TTTCTTTTA GCATTTGCCA | 9720 |
| CCTCCATATA ACATGCACCT | TACTTATTAA TTGTCTTATT | CTCTTTCACA TGGCAGGGG | 9780 |
| TTGCATTTGT CTGTTTACTG | CTGTATCCCT AGCACCTAGA | GTGGTGCCTG GCATACGGCT | 9840 |
| GGTGTGTGAT ACATATATTT | GGAGTGGAGG TAAAAGTCAC | CACTTAGGCT ATCCACTTT | 9900 |
| GTGACAGGGA CAACACACGT | ATCACTTGTC ATTGTACCTA | TAGCATCTCA CCCAGAGCCA | 9960 |
| CAAAAAAAAGT GGCTCAAAGT | ATATATTAAC AAAGAACAAA | ATGGAATAAT CCCATCTGAA | 10020 |
| GGCGAGGATA TAATAAAAGC | AACATACCTT TTTTGGAAG | GACATGGAGA GCATCAACCT | 10080 |

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| TAAGACTAAA GACTAAACCTT GAGAAGCAAT TATTACATTT CTATTAAAAAA TTACCAAATA | 10140 |
| CAAATAGTTA ACTTTGAAGA AATATATGAA TAATGATGGT ATCTGCACAA GAGGAAAAGA | 10200 |
| CTTACTCAAT TTCATTGTAC CTTAGTTGTA AATAGTATTC AGGCCACCAT TTGGAACCTA | 10260 |
| TGTGACACAG TTTAGTTCCCT GTCTATGTT ATAAGAGAGG GCAAAGGCCG GTTTACATCC | 10320 |
| AACCTCTGTA TGCCAGCAGC CACGTATGCC ACACCTCTAAA ATGGCTAAC AGTCATTCTAT | 10380 |
| CAGAACATCGGT TCCAAGAACT CCAACAAAAA TTAGAGCTCA TGGTGCCAGA TTGGCCTGGA | 10440 |
| TTTCATGCT CCTGGGTGAT TACAAAGTTG TAAATAATGA TGCTGTCCAC TGATTTTCAT | 10500 |
| CATGCGGGGC TCTCTGCTTC ACTGTGCCTT CCTCTTATGT CCATGGCACC AATTCTCTG | 10560 |
| ATAGTTCCCC CAGGGGATAG GGTTAGATGT GGTTCATAA GCGCTGGACC ACTGAGGGTA | 10620 |
| ATTCACTCTT AAGACTAGCG AGCACTTCT GAATCTGAGG AGTCACATAT TAAAAGAGGC | 10680 |
| AGAACATCATCT TCTGATTCA AAAAAGCAAC TACATGACCA CCCTGAAAGT GATTTCAAAA | 10740 |
| CAGTTGAAAG CTAGCTGTTA AAGTTGATAA AAGCCACTGC AGTTCCCTGC AGGGAATGCT | 10800 |
| GATGGGCTCC GTTCCCTCTG CACATTAGAG CCATTTAAAT GAAATAATTG ATCATATTAA | 10860 |
| CTGAAATCAC CTGGCTTATA GCTCAGGTCC TAAGAATTGT TAGTGGCACT TGGAGCTACA | 10920 |
| AAGAGGAGTC CCCAAAAGAA ACGATTCTCA CTTTATTTTG GCAAATGGGT GGCTTAAGTA | 10980 |
| GAACCTGGTCC TATTCATCAA CAATAAAAAA GGAAAAAATA AATTTTATAT AAACTTATTT | 11040 |
| CCAAGATTTC TTACCCCTTC TTGTCAGCAT TTCAACTTTA TTTGGTGGAA CTATCTTTTC | 11100 |
| TCAATTATGT GTGATGTATT GTGGTCGTGA ATCATGGTGT CCTGAACCTCC CTTTGGAAAGC | 11160 |
| TAAAACGGTC TGTTGAGGCT CTGCCTACCA GCTCTCTAGG GTTTGTTAAA GCAAAAGAGT | 11220 |
| GAGCACTTTA CTTAAATTTC ACCAATTATA TTATCTCTG AGACCTTAAA TGTTGAGTAG | 11280 |
| AGGGAAAATA CAAGTTCAAG CCTATTATT TCAACAATGG AGCAAGTTGC TACAGCTAAG | 11340 |
| ACCTTTGAG GCTGCCTGTT TCTTCAGGTT TTCCTTGAT TCTCAGAGTA ACCCCACCTC | 11400 |
| AATTTATTG AATACATGTA CTTATGGCTT AACCAACACA CAGGTGGTTT CTTAACTAC | 11460 |
| AGTGCAAAAA TCTTCACACCA TACAAACTTT TTAAAAAAACA ATTCTCAATA TGAAAAAGAG | 11520 |
| AAATCAATAT AATTGGCTAC AAATTATTGG CATCTTTCA GAGATTCTCT CAAGAAAGTA | 11580 |
| ACTGAATTCC TAAAATTCTT ATGACTTTGT TAAAGGACTC AAAATGAACA TATATTCTGG | 11640 |
| CTGGGCAGGT GGCTCATGCT TGTAATCATA GCACCTTGGA AGGCCAAGGA TTGTGGATCA | 11700 |
| CTTGAGGTCA GGAGTTCGAG ACCAGCCTGG CCAACATGGT GAAACCCCGT CTCTACCAGA | 11760 |
| AATACAAAAAA TTAGCCAGGC GTGGTAGTGG GTGCCGTAA TCCCAGCTAC TTGGAAGGCT | 11820 |
| GAGGCAGGGAG AATTGCTTGA ACCCAGGAGG CAGAGGTTGC AGTGAGCCAA GATTGCGCCA | 11880 |
| TTGCACTCCA GCACGGGCAA CAGAGGGAGA CTGCATCTCC AAAAAAAAAA AAAACAAAAA | 11940 |

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| ACCTCATATG TCCTACAAAG CAAGTGATAA AAATCAAAAT ATGACAATGG GCTGAGAGGA | 12000 |
| AAGGGAAACT AGTAGTATTA AAGAAAGTTT TTAATGAACA AATAATGTTA AGGCGGATT | 12060 |
| TTTGTTTGT TTATTTGTT TTGGCCTTT TTTTTTTTT TTTTTTTTT TTTTGAGACA | 12120 |
| GAGTCTCACT CTGTCGCCGA GGCTGGAGGG CAGTGGCACT GTGTTGGCTC ACTGCAACCT | 12180 |
| CCGTCTCCTG GGTTCAAGCA ATTCTCCTGT GCTAAGGCAA ATTTTAAGG ATTATAAATA | 12240 |
| GTAAATATTA GAAGGGATAC TGCTTAAAAA TAAACAATT GGATAGCTAA ATGGTCTTCA | 12300 |
| GACTCTTTG ATTGTACAAC ATGTAAAAGA ATTTGAAAA CTTTAGGCAT TCCTTGAAT | 12360 |
| ATTTTTAACT TGATTTCTAA AACTTTCAT CAAAAAATAA ATTGTTTGT AAATAAAAGA | 12420 |
| AAACATTAAA CATGTTATAA GATGAAATAA GATGAAGAGT GACTATAATT AGAATAAGTA | 12480 |
| TTTCATGACA TAAGTTTATT TTAATAAAAG TTCTAACAC TTTATTGTAT CATTCAATAC | 12540 |
| AAGTTTTTA AATATATATT GAAATTGGT GCTCTGGAA AATATGCCAG CTTCATTTGA | 12600 |
| AAGAATGAGT TCCTATCCTG TACTGCTTCA GTTATTCTGA ATTCAGAACAA TTCCCACTCT | 12660 |
| GGCCAGTCCT CTCTTATAAT AAAACATACA ATACTGTGCA TATTCTCAGT GATTAAAAAA | 12720 |
| AATACACACA GCAGATAAAA GAAGAGGGAG CAGGCAAACC AAGAGCCAAG GTGAATGTGT | 12780 |
| TAATCATTAG CAGTTATCC CCAAACCAAT ATTTGGAAGT, ACTCCTTGT TGACAACCAG | 12840 |
| GAAGTGTAA CACTTCAGGC ATTGCACCTA AATAAAGTGT GGATGCCTTT CCTTCTAAA | 12900 |
| GTGGAAGGAG GGATATTGTG GACATAGGCA CATTCTGAGG CAATTTAGG AAATAAGTTG | 12960 |
| AAATTGATGG AAATTGAGAA AGACTTTGGA AAGTGTGTC CTGCCTCCAC TACCAAAAG | 13020 |
| TCCATGGAGA AAGCAAAGTA AAAGGTCCAA AAATGAAAGT CAGCAGAAC CAGAAAGATG | 13080 |
| GGCAACAAGG TTTTACCATCA CAGATAAATA GAAGAGAGAT TCTTAGTAAA GAAAACAAAT | 13140 |
| TGAGGACAAT CACTAAATAA AACAAAATCG AAGGAAACTC TAAGACCACC AGCCAAAAG | 13200 |
| CAAGAGAAAA TGATTAACAC CTTGGCACAT CTTGGTGAAG GAATTCCAGG ATAAAGAGAA | 13260 |
| TCCTATAGCA CCTAGCCTAA ACATAGCTCT CCTACAAAAA GTAGCTGGCT AACTAGACTT | 13320 |
| CCTCATATTG GACATCAGAA GAGACTAGCA GGAAGTCAAT ACTGTTTGA ATAAGACAAA | 13380 |
| TTGTGGAACA AAATTTCTGT TCCCAGCTAA GTTAATATTA CAATGTTTA AGGCTCCACA | 13440 |
| GTGATCATAA AGAGTACTAT GAAATAAATT CTCAGCTACT GTGGGACTCA GAGGCTCATC | 13500 |
| CAAGTACTGC TCCAAAAAAA TACTCCATTG AAATGTTTG AGATGAAGAA GGATAAAGGA | 13560 |
| TGGACATGAA AAAACAAAAC AAAAACACT TCATTGTCCA GGGGTATGCT AAGTGAGCAA | 13620 |
| GAAGTGTCCA GCACTAAAAA TTAAGGAGGC ACTCACTCTC ATGTGCCAAT TCTGTTCTTG | 13680 |
| CATGAGCCTA AGAAAGGATG CCTCCTAAA TATTGCTTCT TGGGCACCTC ACTTGCCTCA | 13740 |
| TCTTGGTTTC AGCCCTCAAA TTATGTTCAA ATAACAGTGA AAAGTATAAT ACCCAACAGA | 13800 |

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| ATGCAAATGG TATAATTCTT CTATGGAAAC TACTCAATGC AAAATTAATA CATTAAC | TG 13860 |
| AAAAGGTCA GCAAAACTT CCAGAGAAC GTAGTGAAAC CAAGAGTGAG ATGATAGGAT | 13920 |
| GCCTCAGTGT GTCTGTTTC TTATTATATA TAAGGAGAGA GACATGGCTA GGCATGGTGT | 13980 |
| CTCATGTCTG TCATCCCAGC ATTTTGAG ACCAAGGCAG GAGGATCCCT TGAAGCCAGC | 14040 |
| AGTTTCAGAC CAGCCTGAGC AACACAGCAA GATCCCTGTA TCTACAAAAA AAAAAAAA | 14100 |
| AAAAAAAAGC TGAGAGTCAA CAGCCACTTT TTTACTATAT AGGTTATTAA CTTGAGAAAT | 14160 |
| AAAGCATTAA AAGAACAAATG AATTGGGAG CACAACACAG CAAAATGTA TCTGCCACA | 14220 |
| AAATTGGACT TAGAGGAGCA ATTTTCCTCT AAGCTTTAAC CTGTTTCATA ATTAAATGAA | 14280 |
| AAATAAATAA ACTATCCAAA ACAAAATTAA TATGAAGTAA AGCAAAGGGA AATAGGACAT | 14340 |
| AAGCTTGATA AAAGATAAAG CTAATCAAAT ATAAAATAAA AAGACAAGCA GGGCTGGCG | 14400 |
| CAGTGGCTCA TGCCTGTAAT CCCAGCACTT TGGGAGGCCA AGGTGGTAG ATCATCTAAG | 14460 |
| GTCAGGAGTT TGAGACCAGC TTGGCCAACA TAGCAAAACC CCATCTCTAT TAAAAATACA | 14520 |
| GAAATTAGCC AGACATGGTG GTGCATGACT GTAATCCCAG CTACTCGGGA GTCTGAGGCA | 14580 |
| GGAGAACATCAC TTGAACCCGG GAGGCGGAGG TTGCAGTGAG CCGAGATCGC GCCACTGCAC | 14640 |
| TCCAGCCTGG GTGACAGAGT GAGACTCCGT CTCAAAAATA AATAAGTAAA TAAATAAAAG | 14700 |
| ACAAGCTATT CTTAAAATTA GTAAATGACT AAGTAGTCTA ATGAAGGAGA AAGAAAGCAC | 14760 |
| ACATGCAATT GGGTCAGAAG TACAAAGAAC CTAACACCTC AGATATAGAT AAAATGATAT | 14820 |
| ATTATTAAAA AGATAGCCTG ATAAAACAGT TGAATTTTG CAAATATACT TTAAATAGTG | 14880 |
| TGTAAAATAG ATGATCCTCC AGATAACATA AATGGTCCAA ATTGATCAA GAAAATATA | 14940 |
| AAACCCCTTA AAAGACCAGT AACTGAAGGA AATTGAGAAA GTTATCAAAG TCTCCTCAA | 15000 |
| ATGGCTTCA GCCTGCATGA TTTTACAAA CCAATGCTTT CAAGCTTCA AATAACAACA | 15060 |
| GCAATTATAA AAATTCCATT CTAGTCATC TTTTCAGAG TAATGGGAA AAAGGAAAGT | 15120 |
| TCTCCTTCT TGTTTTGAA ATCAGCATAA GCTCCATATC CAGACACAAA AAAGATACAC | 15180 |
| AAAACACATG TATGCATACA GAGCCAATCT CATATATCAG TACATCAGCC AAAGTCCTAA | 15240 |
| ATAAAATATT AGTGAATCAA ATTCTGTCGT ACATCAAAAG AATATTCAAG GGAAAGCTCA | 15300 |
| ACATTAAGAA ATACATTAAT ATAATTCAATA ATATTTAAC A GTCAAGGAGA AAAAGTAAGT | 15360 |
| CATCTCATCA TTAGGTAGAT GACAATAAAC TATTGAGAA AAGTGAATTA ATTTTCATGA | 15420 |
| CTATTGTTAG AAACAATCCT TTAGGGATGG GGAGGGAGA TGAATTAGAA ATGTTTCCTA | 15480 |
| TCAGTTCACCA ATTGCATCTA TTCTGAAGCC ATTAGGAATG TGAATGGTAA CTCTTCCTCA | 15540 |
| AACCATCACCA TAAGGAAAGA TACCCGTAAA GTCTGACACA CCGAAGTCAT CTGTCAGGAA | 15600 |
| TCAATCAGAG AAGCTGCTGG GAAAACCTCA GAGAAGCTGC TGGGAAAACC TAGGCATTCT | 15660 |

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| GAGTCATCAT | TGTTCTTATC | ACCCGTGGCA | ACTGATGCAA | TTGGAAGCAA | CTGATGCTT | 15720 |
| CAGGGTCATG | GTTTCTTCAA | AGCCTGAGCT | CATTAATTTC | GCTGTTTGAG | AACTTGCAGT | 15780 |
| TTGATCCAAA | AGCTGACAGC | ATCGATTGAC | CCATTGCCTT | CCTTCCTGCT | CTGATACTGG | 15840 |
| AAGTTCCAAC | AAAAGAGGAG | GAGGAACAGG | ACCAAGAAGA | ACATGAAAGC | AGAGGACCAG | 15900 |
| GGGCCGGGCG | CGGTGGCTCA | CACCTGTAAT | CCCAGCACTT | TGGGAGGCTC | AGGTGGGCGG | 15960 |
| ATCACGAGGT | CAGGAGATCG | AGACCATCCT | GGCTAACATG | GTGAAACCCC | GTCTCTACTA | 16020 |
| AAAAATACAA | AAAATTAGCC | GGGCATGGTG | GCAGGTGCCT | GTAGTCCCAG | CTACTGGGGA | 16080 |
| GGCTGAGGCA | GGAGAATGGC | ATGAACCCGG | GAGGCAAAGC | TTTCAGTGAG | CTAAGATCGA | 16140 |
| GCCACTGCAC | TCCAGCCCAG | GCGACAGAGT | AAGACTCTGT | CTAAAAAAA | AAAAAAA | 16200 |
| AAAAAAAGCA | AAGGACCGAA | GGACCAAGAC | CCCTTCCCAA | CTGCTCCATT | GGTCAAAACG | 16260 |
| AAGTCAGAGC | AGAAGCTCTC | AAAAGGATGA | TACTTGAAAT | TTGCTTCTG | TTTATTTC | 16320 |
| TACATTCTATA | AACGTGCACA | AATCATAAAT | GTACAATATT | CACAAAGTAA | ACACACATCC | 16380 |
| AAGTCAAGAA | ATAAAATATT | TCTAGTACCC | CAGGAGCACT | TCTTAAGTAC | CATCCATCCA | 16440 |
| GCCACAAACCC | CCATCCCTGC | ACAAGGGAAA | TCGCTCACTG | ATTTTTAACAA | GGACAGATTG | 16500 |
| GTTGTAGCTG | TTTTAAAAAA | GTATTTATA | AACCTTTAAA | AGAATGTGCG | TTTGTCTTC | 16560 |
| CTTTAATCAA | TATTGTGCTT | ATGAGACCCA | TTCATCTATT | ATATATTGGG | GTCTGTTAAT | 16620 |
| TCTCATTGCT | ATACAAATAG | ACCGTGGTTT | ATTTACTCAT | TCTTTTTTA | ACAGACAACT | 16680 |
| TCCTGTTCAAG | GCTATTACAG | ATAGTGCTCC | TATGAACATT | GTTGTACATG | TTTTATGGAT | 16740 |
| GTATATGTGC | ATTTCTAAGT | AAAATGTTTG | AGTCACTGGA | ATTGTACATT | TAGCTTAGG | 16800 |
| AGATATTGCC | GAGCAGCTTT | CCAAAGTTCA | CATTCGTAAC | GTATGAAAGT | TCCAGTTGCT | 16860 |
| CCACATGTCT | GGCAACATTT | TGTTTCCAT | CTCCTTCAT | TTTATCCATT | AGTTAATT | 16920 |
| ATAGTGGTAT | TTCATTGTAG | TTTGATTTT | CATTCTGTA | ATGACTAATG | AAGTTGAACA | 16980 |
| TCTTTTTATA | TGTTAAGGAG | CCACTTACAT | TTTCTCTTTT | ATGAAGTCCC | TGTTCAAGTC | 17040 |
| ATTGGCCCAT | TTTTTAGTTG | GGTTGTCTGT | CCCCCACCT | TTTTGTTTT | TTTTCTCT | 17100 |
| TTTTCTGTA | CATAATTGA | CTACCTATTA | TACTATGTCT | TTCTTTTTTC | TTCTACTTCT | 17160 |
| TCTTTTAGTT | TTCTGCAAAC | CCCCTTCCT | CTTGTGTTG | TCAATATCAT | GAAGGCAAA | 17220 |
| TCAATGTTCT | CATCTTAGTA | CCACCCTCAG | GGCCTGACAC | TCTGTTTTC | TGAAAAACTT | 17280 |
| GCTAAAAAT | ACCCATTGAT | TTGCATTAGG | AGATTCTCTT | CATCTGCTGA | ATTAACCCAA | 17340 |
| GGTTCTTGTG | CAAGCAGTTT | TTTAATAGGA | TTTAAATAT | GGTGGAACT | TCTCTCTAG | 17400 |
| ACATGTTGTG | GCACAAACCAAG | AATCAGTTCT | GTGTGAGGAG | ACAAACTAAA | GGATATGTCT | 17460 |
| TAAGTGTAG | GAGCCAAATT | AATTCTGTT | AGAGTTGACG | CTGCCTATCT | GAGTATCTTG | 17520 |

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| CTCTTGTATG TGATACACTT CTATGCCTTG TATGTGATAC ATTTCTATGC CTTTCTCAT | 17640 |
| CTTGTATGT CTTCAATATT TTTCTCCCCC ATATAAATTG TCATTTCACT TGAAAGTGT | 17700 |
| TCTGTCATCT CTCTCCAATT TTCATTATAT GGTCTAAACT ATATTGCTAT CCCTCTGGA | 17760 |
| AGTGTCTACA TTGCCTTCCT TCACATTCA TCTTCTCACA ATACAAGCCT TCCAGTTCTA | 17820 |
| TCTTCTCTGT CCTTGATTTC TAAGTTAACC TCATTTATTT AATCTTGTAT TGGTCATTTT | 17880 |
| CTCATCATTA ATCTCTTGCA ATTGGGCTAG GATAAAATAA TATCTGTTA ATCTGATGGA | 17940 |
| AATATCTGGA TCTAAATAAT TTGAAAATGG TCTATTTAT TTTAGCATGT AAATTTAAT | 18000 |
| AGAATTAAAT CACATAAATA AACGTCTATG TTTACAATG TATAAAAAAT AATAAAAAC | 18060 |
| TTAATTCTGG GGATTATAGC TTTACAGTTC CGATCGGTGC TGAGATCTGT AACATATGCC | 18120 |
| TACAATTCCG AGCAGATCTT CTCTGCATCC AATAACCTGC CCCACCATGA AGATATTTAT | 18180 |
| CAGTGATCAT TTTCACATGA ATTTTATTT ATTTAGTACT TTCCAATGAG GAAAATTCAA | 18240 |
| AGGCCACATG AATTGACTTT TCAAGTTGT CCAGCTGTTG TCAACCCCGG GCGCATGCTA | 18300 |
| GAAACCTCTA AGGAGTATCT AAAAATTAGT AGTATCTGGG TTCCACCCCA GACCAATTCA | 18360 |
| TTCAGAACATCT CTGGAGTGGG TCCCAAGTAT CAGTGTCTTA TAAAGGCTCC CCAGGGAAAGA | 18420 |
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| GAGGCAGGGTA AGGGCCTCT CTTTGGCCCA GTCTGAAGT TCTGCTTGT CAAACGTGAG | 18600 |
| GTAAAAGACC AGGCCAACACA TGTTGACTGC AGCAGACAGG AAAAAGACAT TCCTCCAACC | 18660 |
| AGACTCAAAA TCCTAGATGT AAAAACAGA GAAAATGATC AATCTCACAA GTTCTTCTA | 18720 |
| CACCAGTTCT AGTAGCCCTC CCAGTTGTGT ATTGCAATGT TGATCACAAG GAATATAAGG | 18780 |
| AACAATGTGC AGTAGTTACT TAAGAAAGTT TATGAAACTA TTGGAAACAA AATGGCCAAA | 18840 |
| ATGCACATGG GGTTCTGAGT TGAGATGGTT ATTTCTTTAA ACAAAAATAA AATACACTAA | 18900 |
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| ATGGCATTGT GGCATTGTGT TTGTGTCTTC TCTGTTTTTT TTTGTTGTTG TTGTTGCTGT | 19020 |
| TTGTTTTGTT TTTTTTGTT TCTGTATTGG CTGTTGACAA CTATCACTAC AACCCATCTC | 19080 |
| AATTCAACAT GAGTTCTCTT TGGTCTTCTG TGTGACCCCTC CTCAGAAAGC CCTACTAAAGT | 19140 |
| CATTTCCAGC ATTATAGTCA CAGTGGATTC CTAGCAGTTT AGTCAAATAT TAAACCTGGGA | 19200 |
| ACTTGATCAC ATAGAAATGT AGTAAAAACA AAACCTCTCT TTGTAAGTTG GTTCTCGTCA | 19260 |
| GTCTTCCAT CCCTGCCTGG GTCTGTCTTT TCATCTTCCT CATGAGCCTG CATTCCAAA | 19320 |
| CACCGAGCAA GCCTCCTTGC AATGTCTCAC AGCCGATCTG TTTCCAGACA TTAAATTATC | 19380 |

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| TTTAAACTGG CCTAGGACAC TTTGTTCCC TTTGTGATT TTTTAAAAAT TGGATTAGTC | 19440 |
| TGAACATATT CTTCATGATC TTCTTGCCT CCTCTGTCTT CGTCTCTTGC TATTCCCTGA | 19500 |
| CATGTGTCTT TCATTCTGGT CATAACTAAG AACTGTTCA TGCTCATGTA CCTCTAGGAA | 19560 |
| GTCACACGTG CTGCTTCTG CACCGGAACA GCTCATTAA ATCAATCTAA CATCTATTCA | 19620 |
| TCTTGAGAAA ATAAGCTTAT ATTTTCTTC CTCTGGAAA TCTGACCTAC CAGAGTCTGA | 19680 |
| TTTAGAGGCT CATGTAAATA GAGTAATTGT GTGCCATCC AGATCTTAG AGCACCGTGT | 19740 |
| GTATCTCAA CACCTAAAAC AATACCTGCC ACTTGAAGAT GTCAATAAA CTGGCCCAAC | 19800 |
| CTGACTGATG AGGAATCCAG TGGCAGTGG AGAGATGATT CCTGCGATGA GCCCAAATCC | 19860 |
| CCTTGAGATT CCCATGAGGA AACTGCATA TCTGTGGAA GATGATTAA TAAATGATT | 19920 |
| TATATAGAAA GCCACCTACA GCTTCTGCAG CAACTCAACT TTAATGCAAT TCAGCTCTAA | 19980 |
| TGGCAAAGTC ATTTGCTTA ATGCAGTTT TCATTCACCT AAAGACATTC AGGGCAATGT | 20040 |
| CTATTTGCCA AACCTGAAAT TACCAATCTA CCAAGTCAT AACCAGGGAG CAATGCAGTC | 20100 |
| TCTCTGGAA CCACGTTCT TTACCCGGC TGCTCAGTGG AGAAGCCAGT TTGTGCAACG | 20160 |
| GGCAGGACAC AGACTCCAAA GCCAGACTCC CCCAGTCAA ATCCTGGCTC TGCCTTATG | 20220 |
| TGACCATAGT CACACCATT AACCTCCTTG TGCCCTCAGCC TTCTCCCTTA TAAAATGGGG | 20280 |
| ATAACAATAG GGCCTACCTA ATATAACTGT GAGGATTAGA TGTGTTGATA TATGGCAAGT | 20340 |
| CTTGGCACAG GAGCTGGCTT ATTGTGACTG TATATATATA TATATATATA TATATATATA | 20400 |
| TATGGTAGCT AATATGAACA ACACCATGGA AACTTTCCA AATCACCTGT GTGTGGGCCT | 20460 |
| TTTCCCAGCA TACACAGTTC AATCTCTGTT AGGAAGCTT GGGAGGTTT TTGTCAAAAT | 20520 |
| GATTACTGGC CAAGATTGGA AATTGTTGTT CTAAAAATGC CACATTGTT GTTCTAAAAA | 20580 |
| TGGCCACAGA CAGATATTTG TAGTTATTG TCATTCTGCC ATTAGTGCAA TGTCAGTAAC | 20640 |
| ATTAAAGAGT TTCACGGCGA CCACTGAGGT CTAACACCTC TGGAGGGTC TGGAGGAGGG | 20700 |
| GAAAAAACAG GTAGAGCTCT TACCTGGGG CGATATCTAA GGTGTTGATG ATAAACCCTG | 20760 |
| AGTCACATAG GTTACTGGTC CCAGGAATAA GTATCAGCAA AATAATGGTT ATCACGTAAC | 20820 |
| TGGAGGCCAC AAAGGGCAGG GCCACAGCAC ATATTGATGG AAGGAGGAGC CCTGGCAAT | 20880 |
| GAGGACATGC TGTCAAGGAA CCCTCTGAGA CCATGTGCAG AAAAGGGATT GGTAAATGG | 20940 |
| GCCCCACACGC TTATCCTTAC CAAGAGATGA AAAGAGCTT CGCACAGTGA TCAATCTGAG | 21000 |
| AAGATTCTG GACAAAAGGA AATCTGCCAG CTGACCTCCT AAAATTGTAC AGCTTGCAGC | 21060 |
| AGCAATAAAA GGCAGGGAGG ACAGAACTCC ACTCTGAAGG AAGGAAGTTT ATACAGAGTA | 21120 |
| GTTATAGAGA TACGTTAGCA CCAAAATTG TCAGTTACAC AGACCAGCCA TTAACCTTACC | 21180 |
| CCCATGATAC TGTGGTTGT TTGGGGAAA ATTAGCATCC TTTTCACAC TAAAAGAACAA | 21240 |

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| AGTGGCATGA TCTTGGCTCA ATGCAACCTC CACCTCCTGG GTTCAAGCGA TTCTCCTGTC | 21420 |
| TCAGCCTCCT GAATAGCTGG GATTACAGGT GCCTGCCACC ACACCTGGCT AATTTTGTA | 21480 |
| TTTTTAGTAG ATGATATTTA GTAAACCATA TTGGTCAGGC TGGTCTTGCA TTCTGACCT | 21540 |
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| GGCCCAGCAA TATTATTTCT AAAAGAAGCT TTGGAATCAG CTGGTGTGGT AGTATAGCAT | 21660 |
| AGTGGTTAAG AATATGGATG CTGCAGCAGC TCTATCACTT AGTATTGTGC AACCTGGGGC | 21720 |
| AAGTTATCTC ACCTCTAACT GTCCTGTTTC CACATCTGT AAAAGGGAAT TATAACAATG | 21780 |
| CCTCTCTCAA GGTCATTGTG AAGGTTAAAT TAATGGTTAT ATGTAAGGCC AGAATGTAAT | 21840 |
| AGGTAACACA GAACTGTTTC TCCTTATTAC CATTATCATT TTCGTAGAAG TATAGGAAGT | 21900 |
| AAACTCACAT CTCTGATGTT AACATGGAGC AGAGTACTGA TATACGTTGG TAGGTATGTT | 21960 |
| AGGATGATGG TGCACAACCA GAAATGGCTG AAAAAACCCA GGAAAATGGC CCAAAGTGGT | 22020 |
| AGGCATGTGA CCATCGCCTT TATGGGGACA GCTCGTCCAG GAGAACTGGG CTGAAAAGAA | 22080 |
| AGATCTAACAT AGCATGAGTA TTAGAGCAGC CAAGATGGTG CCTCTCAGAG GAGATCCACA | 22140 |
| CCCTGCCCTA GAGACCTCTG CATGGGCCAC AGGTACAAGG TGTGCACTGT ACCTGTTGAG | 22200 |
| CCAGTGAGGA CAGGATGTGC TCCTTTCCC TAACACTTAT GCACGGGTGA TGCATGGGGT | 22260 |
| CATCATAAAAT CACTGTGAAC CATAGGAGAC AGCAGACACA GCCAGTGCTA CCTGGGAAGA | 22320 |
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| TGGCATGCCT CTCCCTCTA CACACTAAC AATTAATGCT TATTCTACCA TAAGGACCTA | 22440 |
| AATGTTCCA TTCTTCTTT CAATCCTTCT ACAAAACCTGT TAAAGCTTT TAGATATTAC | 22500 |
| GTCTCAAATA GAAAGCCACC ATTTGTCAAT GTCAGAGCCC TCTGGAGATA ACAGGAGCGT | 22560 |
| GGCATTGCAT AGCTGATTAA TTACTTTAAA GTCTCCAATG ATTACAGTGT TATGTATTT | 22620 |
| AGGCAGCAAC TTCTTAATGC ACACATAAGT TGTCTTGTG CGGAAGATCT GAATAGTCAG | 22680 |
| GTTTGCAGTC ATACATACAC GAAACAACCT TCCATGAAAT CATGTGGCAG GGAAAAATT | 22740 |
| CCAATGCACT TACAAGAGAC AGTATTATT GTATTCAAGC CATAACATCCA TTATGGATT | 22800 |
| CCAAAAGAAA TATTTTGTA CAATACCTGG TTAACATGTA CAAACCAAAA TAATTAGCAT | 22860 |
| CATTAATGAG AAAGCCATTC AGGCCAGGAC TATATTTAAT GACACCATT GGCTATAAAA | 22920 |
| ACAAATCAAG TGTAGAAAAT TGTCTTATTA TTGGAATTCC TTATTTGAAG AACATTCTAT | 22980 |
| GTAAAAGAT TCTGAGGACT AGTTTCTTT AAATCCCCTC TAATTACTGG ATTCACTGAT | 23040 |
| TCTTTTATTT TAAAGCTAAA AATCAGGCAC CATGATGACA CCCAAGTGAT GAAAACATAG | 23100 |

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| AATGGATTCC TTGCCTCAAG CATTTCACAG TCTAGTGGAA AGAAAAGGAG AAATAAATAA | 23160 |
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| AGGGTAAGCC CTGGAAGGGC CCATGGGAA GGGAACATTT GAATTGAACT TTGCAAGATT | 23280 |
| AACTTGGTAG AGAACAGGTG AAAGGCATCT TGGACAGAAA TAATAATTAT AATGAAATAT | 23340 |
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| GGGTGGTGTGTA GGTGCCAAAA TGGATGCTCA GGAAATGGAG GCGTTAGGAT TTAAGAGAAA | 23700 |
| GTGACTCACC AAAGATGTAC AAGATAAAAG GCCAGCTCAA GGCCTGTGAG ATTAGTCCCC | 23760 |
| CCACACAGAG GATGATGAAG GATCCAAATG CTGACCCCTAA AGGAAAAGG GAGAAAACA | 23820 |
| CTTATGAAAA TATCAAAGGC TGAGACTTCG TGGCCTCCCT AAACAATGTC CCAACAGTGA | 23880 |
| GGTGGCAGAC TTAGAATTAT TGGGCAATGA GAGTATTTAT TTCTAAAATA GCTCACAGAT | 23940 |
| TTTCCCCAGT AAAGTAATAT GATATAATTA AAATTAACAA ATAATAGTAA CACACTCTCT | 24000 |
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| GTAACTCTCT GCTATCACAG CCCATTAGCA TTTTCTTGTG ATTACAGTTG CATTCTGCA | 24120 |
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| CCCCTGCCCT CAAAGAGCTT CTGGTCCAAT TGGAGAGAAA AATGTGAATA AAATTGATTG | 24240 |
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| TTTCACAGAG ACCTATAGTA AGAAATGCAT TTTACAGGGT AACATAACAC ACACACCAAT | 24360 |
| ATGCATAAAC ACTTGTACAT ACAACCACAC ACATATGCCT CAAACGATGG TTTCATGAAT | 24420 |
| CGATATTTAA CTTTACCATG TCCAATGCAC TCCAACAATT TCTATTCTAT TCTATTCTATT | 24480 |
| TTTTAAAATA ATGATTTAA CCCGCTCAAT GGATTTATG ACTCACTAAT GGGTCCAAA | 24540 |
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| TGGCTCACGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CGGGCGGATC ACGAGGTCAG | 24720 |
| GAGATTGAGA CCATCCTGGC TTGAAACCCC GTCTCTACTA AAAATACAAA AAATTAGCCG | 24780 |
| GTCATGGTGG CAGGCGCCTG TAGTCCCAGC TACTCGGGAG GCTGAGGCAG GAAAATGGCG | 24840 |
| TGAACCCGGG AGGCGGAGCT TGCAGTGAGC CGAGATAGCG CTACTGCAGT CCGGCCTGGG | 24900 |
| CGAAAGAGTG AGACACCGTC TCAAAAAAAA AAAAAAAA AAAAAAAA GGTTAGGAA | 24960 |

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| GTTTTTACAT AAGCTATGCA ATAGGATAGA TGGAATTTG GCACAAGGAA CAGGGGCAA | 25020 |
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| ATGTGGAGAG CAGCCAATGT CCAGTGCCAC TGGAGCCATG CTTGCACAGG GGAGTTGAGT | 25140 |
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| CTTTACTCTG TAAGCATGAA GGAACACATT GAAAATTCTC AAGCGGGTGA GTAAAAATGT | 25260 |
| GCCATCTTA TTTTAGCAAG CTAACTTGGT TTTGGTGGGA AGAAGGTTGA AAGAAACCAG | 25320 |
| TCTAGAAGAG AGAGATCAGC AGATAGTATT TGCAAATAGA GGAGATGGTT ACAACTATGA | 25380 |
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| TCTCAGCACG ACAGGCTGGG GAGAACAGCA ATGATAAAGC TGTAGAGGCC TGAGTAGGAT | 25560 |
| CACATACCAT GGAAAGGCAG TCTAGCATAG TGATTGAGAA TGTCTGCTCT GGGGCTAAAA | 25620 |
| TCTGCATGGG CTTAAATCTC AGACCTACCA CCTGCTGGCT ATTTGTATTT GGGCAATTTT | 25680 |
| CTTAATCTCC ACCTTCCTTA ACTCCCTTCT CTGTAAAATA AGAATTAAA ATGGTACTTA | 25740 |
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| TAAGGCTTT CTGACTACTA AGGCTTTCT GAGCTGAAAC CTAGCTCACA ATGGTTTTT | 26040 |
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| TGTCTTATAT TGTTGAATT TTCAGCAGTA CTTTTCTCT CTCTTCCCCA AACCATTTGA | 26160 |
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| ACACTTACCT GATCCTGCAA TGGTGGTGAG CTTGCTTCGT TCAAGTGGAG GAGCCCACTT | 26280 |
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| CCTGGGCCAA GCCCTGGACT GTCCGAACCA TGATGACCAA AATCACTCCG AAGTCAGCAG | 26460 |
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| TTGCTCCAAA TATCCCTGCT AAATATCCAC TTGGGATCAG AGTCAGTATT ATCCCATAGT | 26580 |
| TGATGGAGCT AAAGATGATA CCCTGAGTTT CTGGGCTCCA TTGATACACA GAGGCCTGGG | 26640 |
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| AGTTGCTTGA GGTTAGTGAG ACCCTAGTAT AAAATATTGA TTTTTGTTTC TCTCTATATT | 26760 |
| CTTCCTACCT TCCCAAATAA CCAATTATAC CCCTAATTG CTTGTCTTAG TAGAAGGAGA | 26820 |

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| GAAAAACAGA AGAAATGAAG AAAAGAGGTA AAGAAAATGA TTATATAGAT GAATAATAGG | 26880 |
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| TTGCTTCTAG TAAAAGTTGA GTAACATCTT GACTCTTATA TCAAAGAATT TTTAAAACA | 27000 |
| CACACACAAA ACTTTACTGA ACTCTTAACC AAAATCAGTG CCTAATTAAA AAGAAAAGTC | 27060 |
| AAGTTGGGA ATCATGGTCT GCCCTGGCTG AACTGAGTTC CTAAAACACA TATTACAAAT | 27120 |
| GAATAAGATC ACATTCTCT GATATAACTC AATAAATAAT TTGAATTATT TTAAAATAAC | 27180 |
| TACCTAAAAT TCCTAAATAA TTACATAAAT TATATTACCT GAATATTAC CTAAAATAAA | 27240 |
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| CTTGTAGCAT TTGGAAGAAA CTAACAGGGA CTCTGGCTTG CTCAGGGCAA AAACTTCCA | 27660 |
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| TGAATCTACT CAGTGTGGAT ATGTAGACGG GATAATGGAG GAAAGACTGG AGACAATAAA | 27840 |
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| GTAAATTCAAT GGTTTCATA TAAATGTAAA ATAAACATAC AACAAAGATT TTATTTAACT | 28020 |
| CATTGATTAA TGGAGGAAGT AAGTAAGATG TTATAACTGG TTCAAAGGAA AACTCAAAGA | 28080 |
| ATCACGCATA ACACAAGCAG GAAGCAATGC TGAAATAGAC TTTAAATATA CAGCAGAGCC | 28140 |
| TGGCACAGTG GCTCACACCT GTAATCCCAA CACTTTGGGA GGCGGAGGCG GGTGGATCAC | 28200 |
| CTGAGGTCAAG GAGTCGAGA CCAGCCTAGT GAAACCCCTGT CTTTACTAAA AATACAAAAA | 28260 |
| TTAGCCAGGC GCGGTGGCAT GCCCCCTTAC TCCAGCTAC TTGGGAGGCC GAGACAGGAA | 28320 |
| AATCTCTGA ACCCGGGAGG CGGAGGCTGC AGTGAGCTGA GATCATGCCA CTGCACTCCA | 28380 |
| GCCTGAATGA CAGAGGAAGA CTCTATCTCA AAAAACAAAC AAACAAACAA ACAGCAAAT | 28440 |
| TGGCTAATTG AACTGGGAGG TGAGTGGAGA AAAGTTTAA CTGATTTTC TCTTGGCAAA | 28500 |
| ATTTATTTGC AAAGCTATGG ACAAGAATCG TTTGCATTTC TATTGGTTAT ATAGAATTAA | 28560 |
| CAGGGATATA AAATGCTCA GAAACAATAA AACAGGCAGA GAACTGAATA GGATTGAGTA | 28620 |
| ACCTATAAGA ATGTGCCAG GTAATACCTA GTTTTCATT GAAGACATCA CATAAACTGT | 28680 |

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| CTCAATGAAA TCTTATTTT ATTATTGAAG TAAGCAATGT CTCAAAGAAA AATAGTTCCA | 28800 |
| GTCAGTTTA ATTTGTCATT GGAAATGTAT ACTTCCATAC TCCACAGAAT CAAGATCTAT | 28860 |
| GCCTTCCTT CAAAGTTTT TCTCTAACAA AAGAGCCCTA TTTTCCATCA TACTTACCTT | 28920 |
| TGTATCAAAT TCCTTGATGG ATATGCTGGA GTTATTGAAG GCATCTGCAA CAGGCCCTC | 28980 |
| AGTGGAGGCA TTAGATAGAC CTTGCTGCTG AGTGGTGTTC ACCATGGCGA TGATCGCAAT | 29040 |
| GCTCAGACTC ACACGCTGCG TTATCATGGT GAAGTTGAG AAGTGCATGA TAAGAGCCAG | 29100 |
| CCCATAGCGT AATGAACAGA AATCTGGACC TAGACAACAA CACAGATGTA TGTAGTGAGC | 29160 |
| ATCCTGACTG AGACCCCTT CTTTCCTT CTCTCACAGC TCGATCTGAT AGAACTTTGG | 29220 |
| ATGACACATG AAGTCTCATT GTCTTTTTT CACCAAAATA GCCAGCACTA CAAACCCACT | 29280 |
| TTGTCAAATT ATTTGGTTGG CTTCAAGACA GCGAATATGG GATCTTATAA CCAAGTAAAG | 29340 |
| CAAATATGGC CATCTTCAA GGGGATAGGA AACACATGAT AAATAGAGAA AACCCACATG | 29400 |
| TAAGGCATT ATGTCATATT GCTCCAAAAT GAACTGAATG GGGATGACAG TGGCAGAGCC | 29460 |
| AGTCACATAA CCTTCTCAGC GTCAATAAAA TTCCCTGGC TGTAAGTGAA TAGTCCCATC | 29520 |
| TGTTATGCAC ATTTGTTAT CACAAAGCTT GAGAGTTTAT ACATAACGAG CTGCCTTGA | 29580 |
| ATTAAGGTAT TGCACATCCA AGGATTCTCT TTTAATACAT TTGAGAGATG GTACTTTAAA | 29640 |
| TGAGCACTTC GACTAATTCC CTAGTGTAAAT GTCTACTTGG AAATGTTATT GCTATGTGTC | 29700 |
| ACTAGGT CCT GCCTTCACAT ATGTTCAACT TAAAAAAA AAAAAACTAC GTGGGGTGCA | 29760 |
| GTGGCTCACG CCTGTAGTCC CAGCATTG GGAGGCTAAG GCAGGTGGAT CACTTGAGGT | 29820 |
| CAGGAGTTG AGACCAGCCT GGTCAACATG GTGAAACCCC ATCTCTACTA AAAATACAAA | 29880 |
| AATTACCCAG GCATGGTGAT GCATGCCTGT AATCCCAGCT ACTCGGGAGG CTGAGTCAGG | 29940 |
| AGAATCACTT GAACCCAGGA GGCAGAGGTT GCAATGAGCC AAGATCATGT CACTGTACTC | 30000 |
| CAGCCTGGGT GACAGAATGA GACTCAATCT CAAAAAAA AAAAAAATTA ATATGTAGAA | 30060 |
| CTATTTTAC AAAGCTTGCA GGTGATGTGG TGCTGGAAGA TATTCAATAT ATTGAAAGGA | 30120 |
| CAAATTTTT CTTTAAAAGC ATCCCCATAA AATGGAACAA CCACAGACCA ATATTGAAAG | 30180 |
| GGTTCCCATG TGCATGATAG ATTGGATTTC TCCTGCTTAT TTGAAGAAA GCACTAAAGT | 30240 |
| GAAAGAAAGA GAAAACCTGT GAAGACACAG ATAAAAATAT AATGGAAGAA ATAATTTTA | 30300 |
| ATGGCCAAA AAGCTCACAG ATAAGAGTGG TGGTCTGGGA AATAATTATT TCCATTTAC | 30360 |
| TGGAGGTTTC CAAGCTCAGG AGAAAGAGCC AGCCGCTTGG TGAGAATATT ATAGTAGGGA | 30420 |
| TTCATACATA GGTTGGTTA AAATGACTTT CCCGGGCCAG GCGTGGTGGC CCATGCCTGT | 30480 |
| AATCCCAGCA CTTTGGGAGG CCGAGGCCGG TGGATCACGA GGTCAGGAGA TCGAGACCAC | 30540 |

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| CCTGGCTAAC | ACGGCGAAAC | TCCATCTCTA | CTAAAAATAC | AAAAATTCA | CTGGGCATGG | 30600 |
| TGGTGTGTC | CTGTAGTCCA | AGCTACTCGG | GAGGCTGAGG | CAGGAGAAC | ACTTGAAACC | 30660 |
| GGGAGGCAGA | GGTTGCAGTG | AGCCGAGATC | GCACCACTGC | ACTCCAGCCT | GTGAGACAGA | 30720 |
| GCAAGACTCA | GTCAAAAAAA | AAAAAAAAAA | AGACTTCCC | AAAACTTATT | CCACTCCCTA | 30780 |
| GATCCCAGGA | TTTATTGCTT | ATTTGGCTTA | ATTTCTCACA | GATGATTCA | TGGGGCTAAG | 30840 |
| GAAAAAGCAA | CAGGATCAGG | GGCTGGAGCT | GGCTCCAATG | TTACACTGGG | AGTATCTTA | 30900 |
| CGAAGGGTCA | GTGTGATGCA | GAGATGTGTA | AATGTGTCGG | AATAAGCTTC | AGCTTATTAA | 30960 |
| CATAGCCTGC | AAACAAGAGC | AGTGGCTTA | CCTTCCTGG | TGGCAGGCTT | CCCGTCCATT | 31020 |
| TAGCTCTGT | GGGAAATGGT | ACCACGCTTT | GTGGTGGAGT | TTCCCTGTGC | CCTGAATCTC | 31080 |
| TTTTACTACG | ACAGTCTTT | ATCTATGGAG | AGAACATAAT | CCAAAACATA | ATACACAAAT | 31140 |
| AATTTCCTCT | TGTTAATGTT | GCCTCCTCTT | AGCATCAGTA | AAAGTTTGA | CCCAACACAG | 31200 |
| CTCTATAACT | TACATTTAT | GGGGCACTAC | TGGTATGCTT | TTGGTTACAG | GATTGTTAAA | 31260 |
| AGGAAATCTG | GCTGTAAGTT | CCAGCTGTGT | GACCTAGAGC | TAGTCATTAA | AATTCTCTAA | 31320 |
| TCATTCACTT | CCTCATCTGT | TCAATAAAGA | TAAGGCTCCT | TTCTTAGTGC | AGCTGGAAGA | 31380 |
| ATTAAATGAA | AAATTGCATG | TACTTATCA | AACCACAGAG | AAGCATGCGA | AGGTGAAGAG | 31440 |
| TGGTATTGCT | TGTAGCAGAC | CATAAGACAG | GACAATTAAA | CTAAGCTCAA | GAGCTAAGGA | 31500 |
| GGAAGGTTCC | AGAGCGGTCT | TTCCTTCAT | TCTGATGGTG | TTTCTCTCCC | CTCTGTACCA | 31560 |
| CCAGAACAAAT | GTTCCATGTG | CCTTCGAACA | TGAAGGATGA | CATTACATAA | CACTAATATG | 31620 |
| TATTACATTT | AAAAGTTAA | AATGTTTATT | CTCATGTTTG | CTACACACAA | TGTGGACACT | 31680 |
| TGCTTGGACT | GACAAAGTCT | TCATATCACC | TAGAAAATTA | TAATGAACAG | GGACTAATTA | 31740 |
| CTACAATTGT | GAATAAATCC | AGCTATTGTG | ACAGGCCAAG | AGAATTCA | GCTCTAAATA | 31800 |
| TGGACATGTT | TAATTAAATA | TTTGTATACT | AATCAAATTA | TCTTTGGGGA | TGCATACATT | 31860 |
| TGTTTCTTT | AGGAAAATC | CATATCCTAA | GAATATCATC | AATTTCCAT | TCATTCCTAA | 31920 |
| ATTGAAGCTT | CTATGACTTT | ATTTTTAAA | TTGCTTAAAA | TCCTTCAAGA | CATCTGAAAT | 31980 |
| TTCTGTGACT | TTAAAAACAC | ATGTATCGGC | CGGGTGCAGT | GGCTCACACC | TGTAATCCCA | 32040 |
| GCACCTTGGG | AGACTGAGGT | GGGTGGATCA | CTTGAGGTCA | GGTGTTCGAG | ATCATCCTGG | 32100 |
| CCAACATGGT | GAAACCCAT | CTCTACTAAA | AATACAAAAA | CAGCCGGGTG | TGGTGGCACA | 32160 |
| TGCCTGTAGA | CCCTGCTACT | AAGGAGGCTG | AGGCAGGATA | ATTGCTTGAA | CCCAAGAGGC | 32220 |
| AAAGGTTGCA | GTGAGCCAAG | ATCGTGCCAC | TGCACTACAG | CTTGGGGAC | AGAGCAGGAA | 32280 |
| TCCGTCTCAA | AACAAACAAA | CAAAAAACAA | CATATATCAA | ACCTCTATTT | TATCATTCAA | 32340 |
| GGCTTTGCAC | TGTTTTGCA | CACAAAATTT | AAAAGACTTG | TCCGTACTTT | AAAGATATTC | 32400 |

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| ATAATCTGTG ACCTTAGGAT GAAGGATTAT AAAGAAAGGC ATAGATGAAA AATTGTGTCC | 32460 |
| AAAAATATCC TTTGTAGTAT TACTCATGAC TGCATAATGT TAGAGATAAA TTAACCTAAT | 32520 |
| AATGAGAGTC TGGCAAGTCA ATTTGATAGA TTATTGTGAT GGAAGCTATT TTAAAATGTT | 32580 |
| TTCGACAATA TTGAATTACA TTAGAAAAAT GCTAGTACTC TAGTGTACAA AGCAGGATAC | 32640 |
| GCTGTGCACA TCCACATACA GGAATAGAAA CTGATTACA CAAGTGCCAG TAATGACTAT | 32700 |
| TTCTGGGTTA CAAAACAGGA TGATCACTTC ATTCTTGATG ACTTTCTATA TTTACCAAGT | 32760 |
| GATTTTGTAA ATAATTAGTA GATACTCATT TTATATTCAAG AAGTAGCTAA ATGTATTTAA | 32820 |
| AAGAGCAATA ATTGGACTTC ATCAGCATGG CAAGTATAGT TTTCTGCTTT CCAAATATCT | 32880 |
| CTAGAATTCT GGGAAATAGTA TCTCTCCATC TAAATTTGA ATTTTGGGTG TTTGGAGATT | 32940 |
| TTATTGTTGT TGTTGTTGTT GTTTGTACA ATGGACCCAA ATGGAGGCCA AATTGCTAGT | 33000 |
| AAGATCAGGT CAGCACCAAGG ACAGATACTG GTTGTGCTC TGCCCTAGAA GGCCCTCCAAG | 33060 |
| TCTTGCTAAC ATCTGGATAT CAGGAGTTCA GCTCATTGCT CTACACTCAG ATCCTAGCTG | 33120 |
| AAGTCATCTG TGGTCAAACC CAGAGTTGG ACCATTTCT ATTTGATTC ACTTTTTATG | 33180 |
| CAAGATCCCG TGGCTTGGCT GAAGGCAACT CTTTA ACTGT ACAT GCAGCT GCAATTACTT | 33240 |
| ACACTCCACT TAAAGCTTTC CCACCAACTT CTCCAATCTT ATAAACACTG AAAGCTGAAA | 33300 |
| GAGACTCAGA GATCCTCTGG CCCAACTGTT TATTTTATTG ATAAGAAAAT TTGCGTAGAA | 33360 |
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| CTAGACTACT GCTTGTCTA CCTATTACAA CTTCCCCTTT GTTTCGTAA TATTTTAATC | 33480 |
| ACAAGCTTAA AACTCAATGG GGTAGCTCCA TTTGAGGTA TTATAAAGGA GAATTGTTAT | 33540 |
| ATTTTAAATC AAGTTTAAT CATTATTCT AGAAGGAAGT TTGATAATGA AAAATACTTT | 33600 |
| TAGGTTGAGC TTTGAATATT AACACAAAC ACAACAAAAC TACTTCTCCT TGCTCTTAT | 33660 |
| GTTACTGGAA TTGTATCACA AACCCATCAC TTTAGTTTT CTTCCCATTG TCTGTTGCTG | 33720 |
| TCTAACGAGA AAGGATGAAA AGCCCTACTT AAGTTTTATG GTTTCAAATG CTACTTTGAT | 33780 |
| TTTGTATCAA TAGGTAATTT CAGTTCTCG TTTCTTATTT TCCTTTGCAT GAGACGAATG | 33840 |
| CAGAAATCAG GCTAACATAC CAAACCATCC TAAACTGAGG TCTTTCATGG TAATGGGAAA | 33900 |
| TGTTTTCCA AAATAAGCAC AGAAGCTAAT AAAATTATGG AGGCTGAACA CTGGCATGGT | 33960 |
| TGATATGTAC TTAGAGACAC TGGAATAATT ATTAACCTAT TTGCAAACAA TTGAGAACAT | 34020 |
| GTAACAGTGT CAGAACCTT CCCTTAAGG AGATATACCT CTAAAAAAA ATTGTGAATT | 34080 |
| CTAGTGCCAA AGTTGTAAGT AGACACAGAA AAATGAATTG AAATTAAGTT AAAGGAAAAT | 34140 |
| GTTATATTAA AAAAATTAC TTGACACAGT ATAGGTTGAA TTTGAGAAAA AAATAAATAA | 34200 |
| TGTAAATATT ATGGTATACG CATAAGCAAA AAAACAGGTT TTTCCCTTT TTTAAGTCTA | 34260 |

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| GAACATCATGA TTTTATTATA ATGGTCGTTA GATTGCTCTT AGATTCTCCT AATATCCAGC | 34320 |
| CTGTCTTGCT TCATCTCTGT TAGCCCAGAG TCCTAGTTA CTCAGAGTAA ATGTTACACC | 34380 |
| TAGATCAAAG AGCATGAACC TGCA GTGGGA GGATATTCAA GGACTGAATT CTGCTCTGCC | 34440 |
| ATTCCCCAAAT TGAGTAAACC AGGTAAAGTT TCAAAAACCTC TTAGGGCTTT CACTGTTCA | 34500 |
| TAGGAAGAACAT TGGGATAATG TTACTTCACT GGGCAGTTG GAGTGAAAAC AAAAGTATGA | 34560 |
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| GCAATAATAA TAAACAGTCA CAATATTGGC AGTCTAGCCC TCTCAGATCC ATAAATACAG | 34680 |
| GCCTACAGCA AATGAAATGT ATTTCTATAA AAGTGCCTTT GATTGGTTGT TAAATTGGTT | 34740 |
| TTAAATGTTT CTTTTTAAA GTGGATTCTT CTGGCCTGGA ATCCTCAAGA TGAGTGGGA | 34800 |
| GGAGTTCACCG AGAAAACATA GAAGCAATTC CTTCA GTGTT AGAAAAACTG AGGGCCCTCT | 34860 |
| CATCATCTGC CTATCTTCT GAGAAATTGG TGCTGACCAC AATGTCCCTG GGTGCCTTT | 34920 |
| CTTAGCTGTA CAATGAGGGC AACAAAGCTAG GTGATCTCTA CAAGCGTACA ATTTCTTGC | 34980 |
| CTTCAGTCTT ATTCTAACT TTGGTCATGT TCTCCTTTTC TTTTATTATT ATTATTTTT | 35040 |
| TGAGACAGAG TCTTACTCTG TCACCTAGGC TGGAGTGCAG TGGTATGATC TCAACTACTG | 35100 |
| CAACCTCTAC GTCCTGGTT CAAGCAATTC TCCTGCCTCA GCCTCTGAA TAGCTGGCAC | 35160 |
| GCGCACTATG CATGCGCATA GGTGCACCGCG CCGCTACGCC CTGCTAATTT TTGTATTTTT | 35220 |
| AGTGGAGACA GGGTTTCACC ATGTTGGCCA GGCTGGTCTC AAACCTCTGA CCTCAAGTGA | 35280 |
| TCTGCCGCC TCAGCCTGCC AAAGTGCTGG GATTACAGGC GTGAGCCACC AGGCCCGGCC | 35340 |
| ATGTTCTCCT TTTCTGAGA GACCATTCA AATTCTATATA GAAGTCTGAA AAGACTCGTT | 35400 |
| AGCCACAGTC CCAAACACAA ATCTTGTCAAG TTCTGATCAG TATTCATTC CACAGCCAAT | 35460 |
| CCCAGTCTGA CTAATCACAG CATCACAGTT AATACTCACA GCGTCCTGG AGAAATGACC | 35520 |
| ATTGTCCACA GTGTCCATTG GTACCA GTGTT CTTCTCAAGC CTTGCCCTAG GGTCTTCATT | 35580 |
| GAATCAGTTA TCTTTTCAG AGAGTCTCTT CATTGGAA TTAGGCAATA TTACCAAGATG | 35640 |
| GAGATCCTTA TGTTGCTGTT AATGTCTTT CTCTGACTTC TCCTAAAAGT GTTCCCTCCC | 35700 |
| CTTAATGGAC CTTGGTAAG TTAGTAATAA TCCTCTACC CAAAAAGAAG AAAAGCACTT | 35760 |
| ACCTTCACCA TTAAACCAAGT ATTTTAAGCC CTAGACTATA AGGCTAACTT GGAAAAGGAG | 35820 |
| GGAGTTTCT GTCCCTCTT CCCTTCAAA TACTTTGCA GATTTTACA GGGATAAATA | 35880 |
| GTGAGCCACG TGGCAGTCAG ACGGCAACAG GTTTGGCCCC ACTTTCTCAG AAAGCCTCGG | 35940 |
| CTTGGTTTG CCGCTTAATT TTTAACTTCAT TTTCAAGTT CTCACTGTTA GAGTATCTCA | 36000 |
| AAAGATGTCA TCGTGTGTTT CTGCTTGAA CTGTCATAC AACCAATTCAAG TCAACAAGCC | 36060 |
| TTTTTTCTG AAAGCAAGGG GGCATGGTGT GGAGGAAAGG GCAGGGCTCC TGAAATCAGT | 36120 |

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| GATGGAGTCA GACCCATATT CACTTCCTAG TGTTTCCCT GAGCTTGGAC AAGTCACTGA | 36180 |
| ACCTCTTGA ATTGGCTTCC GCTTTAGTAA AGCAAGGATT GTGTTACTGT ACTCATGGGG | 36240 |
| TTATTGAACA AATGAAATAC ATATTCTAAT TGGTAGTAGC TCCTCAATAA ATGAGGTGTT | 36300 |
| CATTCCTCTT CAGGAGTTCA GTTAAGTCAG CTAGATTTTC CATATGCATT TGGTGCCCAC | 36360 |
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| TCTTCCAATT GTGTCTTATT TGTAATCATT AATTTGAGA CTGTGGTTGC TATTGGATCT | 36540 |
| TCCTAGTGTG ACGCAACCCT TATAAAATGA AATGAGAGCC TTCCCTCTCT GGCTTATCAG | 36600 |
| CTTCAGACTT CCTTAATTGA GTTCCGCCAT CCTAGTGAGT CTCACCATAAC TCCCGAAATA | 36660 |
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| ATTGCTGTTG TAGTAAATTA CCACAACTGT GATGGCTTGA AACAAACACAA AATTATTTAT | 36780 |
| TTATTTACAA TTCTAAAGGT CAGAAGTCCA AAATGGGTTT CACTGAGCCA AAATCAAGGT | 36840 |
| ATTGGCAAGG TTGTGCCCTT TCCAGAGGCT TTAGGGAAA ATCCATTCTT TTTCTTTTC | 36900 |
| AGCTTGTAGT GACCACTGCA TTTTTGGCT CTTGGCCTTT CCTCCACCTT AAAGCCAGCA | 37960 |
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| CCCTTGTGAT TACACTAGGG CCCATCTGCA AAATTCAGGA AAATCTGCCCT ATCTCAAAT | 37080 |
| TCTTAACCTTA TTAAACATGT AAAGTCCCTT TTGTCATA AGGTAATATA TTTACAGGTT | 37140 |
| CTGGGGATTA GGACATGGAT ATCTTGGAG GACAACATTC AGCCTACCCCT TTTGAGGGAT | 37200 |
| AGAGGGGTAG CAGGAAGAGT TGAAACAATT CCTTCCTTTC TTTATTTAAA AATTCTGGTT | 37260 |
| ATTGATTTAT TATAGTTATC ATGTGCCTGA TAAGCCAATG AAAATAGTTA TAATGCCAG | 37320 |
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| AAGCCCAGGA ATCCAAGACC AGCCTTAGCA ACATAGGGAG ATCCCGTCTC CACAAAAAAA | 37440 |
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| CTTGAGCCCT GGAGTTCAAG GCTGCAGTGA GCTGAGATTG CACCACTGCA CTCCAGCCTA | 37560 |
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| AGAAAGAAAG AAAGAGAGAG AGAGAAAGAA AGAAAGAGAA AGAGAGAAAG AAAGAAAGAG | 37680 |
| AGAAAGAGAA GAAAGGAGAA CTTTCTTGGC TTAATTTACC CAAAAGGTAT GATATTTCT | 37740 |
| TAATTTGCAT AAGGCAGAGC ATGAGCTGAT ACCAGTTCTG GTAGAAAAAG TAGGTGAGAC | 37800 |
| TGGATCCCCC AAACAAGAGT AAATATTTAA TATAATAAGG AAAGAGTGGC CGAAAGTATT | 37860 |
| CAATGCCACA AGTAAGATTC AGAGTAGATT TTTCAAACCTG CATAATTGT TTAAAAAGCA | 37920 |
| TAATTTTATA GCTGGATTTC GCAAGCTCTC TGAGGGGATC TTGTTCATTT TGAGAATCAC | 37980 |

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| TATATCCACA ATTCTTGGCA CAGTGTCTGT CCTATGGTGT GTGCTATGAT CCAAATGTCT | 38040 |
| GTATCCTCTC AAAACTCATG TTGAAATCCT AACCCACAAA GTGATAATAT TAGAAGGAGG | 38100 |
| GGTCTTGAGG CAGTAGTTAT ACCATGAGGG CAGAAACCTC ATCACTAGGA TTAGTGTCTT | 38160 |
| TATAAAAGAA ACCCAAGGAA GTTTATTCAA CCCTCTGCC ATGTTAGGAC TCAGCAAAAA | 38220 |
| GATGGCTACC TGTCTCACC AGACACTAAA TTTGCCAGGG CCTTAATCTT AGACTTCCA | 38280 |
| CCTCCAGAAC TGTAAGAAAT AAATTTTTG TTGTTTATAA GTCACCCAGT TTATGATATT | 38340 |
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| CCCCTCACTC CCAATCATGA TTTTCATATA ACAAAAGTTAA CTCAGTTAA TCAACTCAAT | 38520 |
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| CACATCCTGT ACTTGTACCC AGGAACCTAA AAAATAATAA TTTTTTAAAA AACAGCTATT | 38940 |
| TCCAATCAGA GCAGTTCAAT TCCATACAAT TATTATTATT ATTATTATTA TTATTATTAT | 39000 |
| TATTATTTG AGATGGAGTC TCACTGTCGC CCAGGCTGGA GTGCAGTGGC ATGATCTCAG | 39060 |
| CTCATTGCAA TCTCTGCCTC CCAGGTTCAA GTGATCCTCC CGCTTCAGCC TCCTGAGTAG | 39120 |
| CTGGGATTAC AGGTGGGCAC CACCACGCCT GGCTACTTTT TGTATTTTA GTAGAGATGA | 39180 |
| GGTTTCACCA TTTTGGCCAG GCTGGTCTTG AATTCTGAC CTCATGTGAT CCTCCTGCCT | 39240 |
| CGGCCTCCCA AAGTGCTGGG ATTACGGGCT TGATCCACTG CGCCCAGCCA ACATACTATA | 39300 |
| TTTTTTTTG ATAAATTTTC TGTATTCTAG ACATGACATT AGCTTCCGAC AATATTAATT | 39360 |
| TATTAAGATC TGACCCATGA CATGACTTCA TAAGAGTTCA GAGTCCACTG AATGAGACCA | 39420 |
| CACACAGAGA CAGACAACTA GAATGAAGGA TGATAAACAT GAACAATACA AACATTGCACA | 39480 |
| GGTGACTAGA AAAGAACAAA TGAAGACTCC TGCCAACTGG GGGTATCAGG GGAAGGCTTC | 39540 |
| CCAGGCAGAA CAGGGCTGCG CCAGTCTCCA TGTGTGGTAT GAATAAGTCA GTAATACAGG | 39600 |
| GGAAGCACCT TCCAGAAAGA GCAAACCGT TGAGGCTTGG TGTGAGGAAT AAGAAGTGTG | 39660 |
| CAACATGACT GGGGATTAAA GTACAAAGGT ATAAAGGAAA TGTGGTGAAC TGACTGGAAA | 39720 |
| GATAAGAATT TTTTTAACCA GTTACTTTTC CCAATAGTAG AATTAACCTAG ACAGGAATAG | 39780 |
| AAATGGAAGA AGTTTTATG TTCCCTTACA ATGAAACACTA TACATTTTT AAGAATTATA | 39840 |

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| TGAACAAAGGA AAATGTGACT CAAAGGCAGA AAATGATAGA ATTTTATTAT AGGGCAGAAA | 39900 |
| ACAGGATCTG GCTAAATTAA ACTAAGTACT CTACTATACT ATACCATATG CTATATTCTT | 39960 |
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| GTGAAAATCC AAGAGGAAGA AAGAAAAATG GAAGACAAAC TGGAAATAGC CCAAATTTC | 40080 |
| ATCAGTGGAA GACTGAGTAC TTTGTGATAC ATAGTCATTG CAGAAAATA ACACAGTTAA | 40140 |
| AAAGAATGAA TCACATCTAT AACATTTGAC CTGAATACTT TCATATAATG TAATACATTT | 40200 |
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| AATCAAGAAA ATTCTATATA TCTGTATCTT TGTTTACATA AGATTGTGTG AGCCATAATA | 40320 |
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| AGATCGCGCT ACTGCACTAA GCCTGGCAA TGACAACAAA ACTCGTCTC AAAAAAAAAG | 40680 |
| AAAAAAAAGTG TAAGACTTAG CAAAAAGGTG ACCAAAAAAA AGCAACATTT ATAAACTATG | 40740 |
| GATGTAAAAC TCTATGTATG TGTGAGTGTG TATACATGTG TGAATATACA TAGGATACAT | 40800 |
| TTTTGTCTGT ATGTGTATAT GTACATACAT GCATGTATGT GTATGTGTGT GTATATATAC | 40860 |
| AAGCTTTTT AAAATGTTT CAACAATATT GAATTACATT AGAAAAATGC TAGTACTGTA | 40920 |
| GTGTACAAAG CAGGATGCGT TGTGCACATC CACATACAGG AATAGAAACA GATATATACA | 40980 |
| TACACACACAC CTACACACAC CCCTATACCT ACACCAAATA TACATTGAGA GAGAGAGATA | 41040 |
| GAGAAAATAG TAACTAAGGT AGTTAATTCT GGCCACAAGG ATTTTAGAT GAATCTGACT | 41100 |
| TTCTTCCTTA GGTTTTTTT GTATTGTTA AAGTTTCACA CAAATAGCAT TTATTTACTG | 41160 |
| TATAATCATA AAAGGCAAAA ACCTATTTG ATTTAGGAA AACACAAAGC ATCCAAACCA | 41220 |
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| GGTCTTTAT GCAATGTCCA GGAGCTTGAA CTTTATCTTG TCGTTCCAT ATTTCCTCAA | 41340 |
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| AATACAAAAC AGTTTTCTG AAGTACTAAC TTCACTCAA ACTTCGGGAA ACATTTAAA | 41460 |
| AATGGTTTA AACAAATTG ACTAAATTG ACAAAATTAG TCAAATGCAA AATTTTCATT | 41520 |
| TTTAAAAGGA AATAAATTG AGAGGAAAAA ACAGATGTGA AAAAGAATAC ATGAAATAGT | 41580 |
| ACATGAAGGA ATACATGCAC GTGGCATACA CTTGAATCCA TGTATATGCC AGGTTTCTT | 41640 |
| GTGTTGCACA CAAGACCAAC TCTGAAGTTA AAGATAACCC AGTAGAAAAA ATTAATGAT | 41700 |

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| GGGGAGTAAT TAAAATGTT TCAGCAGGAG TAGGACATGA TTTTATATT TAGACTGTTT | 41760 |
| AGTCGGCTAG TTATGTCTGA CGGATAGAAG TGAGGACACT CCTAATTGAA AAGTAAGTGC | 41820 |
| TACTAAGAAA CTCAACGTGG GGGTCATAGA ATGAAGCCAG ACTTTTGTT CCAAGCAGGA | 41880 |
| GACAGATGCA GATAAGAGGG AATGAAGATG AAGTAAGGGC TGAACCACAG AAGCTTCGCA | 41940 |
| TCATAAGTCA TTGTATTCT CTGAGTGAAC ATCATAGAAC TTATTTACTA TCTGGTCACA | 42000 |
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| TCCAAGTAAG TAAACACTCA TTATTTCTAT AAGGCTTAGG CCACAAGACC TTGGCTGAGA | 42180 |
| CCCCTGTCTC TGTGATCTGG TCTGTACAC ATTGGAAGGG CCATGACTGA TTTCTACCTA | 42240 |
| GACATTTAAG GCTGAACCGA GGCTGAAGAA CCTCTTGCTT GCTTCCCCT AGACTCACAT | 42300 |
| CTGATAACAG CCCTCATCTT AGGCCCCAGA GGGCAAGAAG AGGTTAAGAA GGATCAACCA | 42360 |
| AAGGTAAAGT ACACCAAGAA AAGAGCAGCT CTTTGGTTAG AATTTTAAGA TAAAGAGAGA | 42420 |
| CACATAAAAG CTACTGTTGA AAAATAACAG AAGGAACAAC GTTTTATCTA ATCAATAGAT | 42480 |
| GGAACAAGAC AATAGAGGAC CATCTAACAA ATAACCTAGA ATACCATGGA AGACAGACAT | 42540 |
| AAATCATCTG TATTGTCCT GCTCAAGACT TGCCATATGC CAGGTATGGT GGCTTATACC | 42600 |
| TATAATCCA GAACTTTAG GCTAAGGCAG GAGAATTGCT TGAGCGCAGG AGTCCAGAC | 42660 |
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| TGTGATGGCA CACACTGTT GTCCCAGCTA CTCAGGATGC TGAGGTGGGA GAACAGATTG | 42780 |
| ATTCTGGGAG GTCAAGGCTG CAGTGAGCTA TGATTGCTCC ACTGCACTCC ACCCTGGGTG | 42840 |
| ACAGGAACCTG CAGACAGCCT CTAGAAGTTG AATCAGCCTC TACCAAGAAG CTTCTACCGG | 42900 |
| TGCAAAGAAC TGAATTTC AACAAACCTG AGGGAGCTTG GAAGTGGAAA TTTCCACAAT | 42960 |
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| AATGTGTGTT GCTTAAGCC ACTAAGTTT TGCTAATTG TTTTGTAA ATTATATATA | 43140 |
| ACTAGTACAC ATGAATAGTA GAATCTAATA TCAGCCATTG ACTTCAATGA AGGAAAAAAC | 43200 |
| AGATGTGAAA AAGAATACAT GAAATAGTAC ATGAAAGAAT ACCTGCACAT GGCATACACT | 43260 |
| TGAATCCATG TATATGCCAG GCTTCTTGT GTTGCACACC CAGACCAACC CTGTAGTTAA | 43320 |
| AGATAACACA GTAGAAAAAC TGAAGAGTTA CTGAGAGTAA TTAAAATGTC TTAAGCAGGA | 43380 |
| GTGGGGCATG ATTTTATTT TTAGACCGTT TAGTCTGCTA GTTATATCTG ATGGTTAGAA | 43440 |
| GTGAGCCTAT CTCTGGTCCC ATGTTCTTAG AGAGAGTACT TTTATCTCTT TATCCATCTA | 43500 |
| ACATCTCTAA TTTATGTAAC ATCCCAAGTC CTCATTAATC CTGTGTTATT GCTGTTGGAA | 43560 |

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| AAGACTATTC ATCTGCCCA GGTATCTGTT TGATGCCTGG ATATGTCTGA ATTATTATTA | 43740 |
| TTGTTATTAT TATTATTTT TTTTTAAATG GAGTCTTGCT CTGTCACCCA GGCTGGAGTG | 43800 |
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| ACCCAACCTT AGACCTCATC CTACCCAGCT CACGTGTCTT TTAATCCTTT AGCTGAGGTT | 44100 |
| GTAGTTTAA CTTATTGCTG CTTGAACCTA TTTCAATGCA AAAGTTCTAA AAGAACTCAG | 44160 |
| CCACCAAAAT TCCCTTGATT TGCTGCACTG TACCAAATAT TAGTCTTAAT GAAATACAAG | 44220 |
| ATTTGTTCA GGATCTCAAG CCCAATATTT TCAACTGTAG GCTTCCCAGT ATCCAAGGTT | 44280 |
| TACGCAGGAG ATTGGCAGTG GGTACATTCC CAGGGTCAGT GGTTTTATC CAGGAAGGAA | 44340 |
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| ATACTTTATT CCAAACAGCT GAGCTGGACC ATAGCTAGAA GAAGGAATAG AGATGAATGA | 44880 |
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| TCTAATGGCC AAAGGGCTGG CCTGGAAATT CTCCCTTCAG CTGAAAAAG AGAAAAAGAA | 45360 |
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| ACCCTATAGA GGAACCAAGT AGCTTATCTT CTTCCCTTGGA TTCCTCTATC TCATAGCCTA | 45600 |
| GAAGACATGG GGTGATCCTA GCCCCTGGTA GTGTAGGACA AGGTAGAGTG GGACTGTGGT | 45660 |
| TTTAAAATAC TTTTAGACC GGGTGTGGTG GCTCATCAAC ACTTCGGAG GCGGAGGTGG | 45720 |
| GTGGATCACC TGAGGTCAGG AGTTGAGAC AAGCTTGACC AACATGCTGA AACCCCGTCT | 45780 |
| CTACTAAAAA TATAAAAATT AGCTGGGCAT GGTGGCAGGC ACCTGTAATC TCAGCTACTC | 45840 |
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| CCTGTCTAAA ATTGAATTG GCTATAGAGT TATGGAAGGG TTGCTGGCCT TGTCTGGGTG | 47040 |
| GAATCAGATT CAGTCAGCAA GTAAGGGTC TTTGGGAGGT GAGCTTAGGC TGTCTGGGCC | 47100 |
| CCTTCGAGGA GGGCAGATT TATGGGAAAG GGCTCTCCTA GAAGAACCTA GTTCTAGGATG | 47160 |
| AGCAAATCAC GCAGGTTCAT TCTCCACTTT ACCCTAGCAC TTGCTTAGGCT CAGTGGTGGT | 47220 |
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| TAACAAAAAG CATTATAATT ATGGCAAATT GTTGAATGCT TTCTCCACCC CTGCCCTTTC | 48240 |
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| ACCGCATTCT ACCCTGGGTG ACAGAGTGAG ACTCTGTCTC AAAAATAA AATAAAATAA | 48840 |
| AAATGCCGAG GTGGCGGAT CACCTGAGGT CAGAGGTTCG AGACCAGCCT GGCCAACGTG | 48900 |
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| TAAATGTATG ATTCTAACAA CAGAGTTCA AAATACATAA CGAAGTTTA AAATACATAG | 49200 |
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| GTTATTTATA TGGTTGGCT GTGTCCCTAC CCAAATCTCA TCTTGAATTG TAACTCCAC | 51000 |

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| GAGTTTCCCT | GCACAAGCTC | TCTCTTGCC | TGCTGCCATC | CATGTAAGAT | GTGACTTGCT | 51180 |
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| AAGGTGGTAT | GTCTAATAAG | AGATACTTGT | GTTCTCCAG | TAATACTGCG | ATCCCAAAGG | 51900 |
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| CTCTGCGTAA | AAAAAAAAAA | AAAAAAAAAA | GTCTCAATT | ATGAATTGAG | TTTAAAGTAA | 52440 |
| TACTTGACTG | GTGGTACCCC | AGCTTCTGG | CAAAGCAGA | CACAAACCCC | CTCTAGAAGA | 52500 |
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| GGAGCTGGGT | GCTGTGGCTC | ACGCCTGTAA | TCCCAGCACT | TTGGGAGGCT | GAGGTCAGGC | 52680 |
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| GAATTTCTA TTTCTCCCTT CAATTCTGTC AGTTTGTTC CATGAATATT AGGGCTCTGT | 55080 |
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| TACAAAATAC CTTTCTTTAT TTATTATAAC AATGCTTATC TTAAAGTTA TTTGTCTGA | 55200 |
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| AGGTATGGAT CTCTTGAGT GTATCCTACT TGGAATTCAT TGAGCTCTA AAATATGTAT | 55380 |
| GCAAGTTAAT GCTTTTTGC CAAACATGGG AAGCTTGAG AAATTATTC TCCAAACATT | 55440 |
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| GCTTGATGGT ATCCCCTGTC TCTAAGGCTC TATTCTTTT TCTTCATTCT GTCTTCTTC | 55560 |
| TGTTTTTCAG AGTAGATCAT TTCAATTGAC CTATCTTGA GTTCACTGAT TACTTCTTTT | 55620 |
| TGCTGCTCAA ATTTGCTGTT AAAGCCCTCT AGTAATTTT TTTTCTTACA GATGAGATAT | 55680 |
| CATGCTGTCG TTCAGGCTGG AGTGACCATG ATCCTCTTAC TGGGATCACA GATCACGCAT | 55740 |
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| TTCTTTCACCA CACAAAAGGG TTATTGGATC TCACACAAGA AGGAATTGAGG GGCTAGTCCA | 55860 |
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| TGCCTGTAAT CACAGCACTT TGGGAGGCTG AGGCAGGCAG ACCACTTGAG GTTAGGAGTT | 55980 |
| CGAGACAAGC CTGACAAACA TGGCAAGACA CTGCTCTAC TAAAAATACA AAATTAGCTG | 56040 |
| GGTGTAGTGG CACATGTCTG TAGTCCCAGC TCCTCAGGAG ACTGAGGCAG AAGAATCGCT | 56100 |
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| AATGGGTCAAT GCATAGTGGG TAATGCCTGT AATCCTAGCA CTTTGGGAGG CCAAGGCAAG | 56280 |
| TGGATCGCTT GAGGCCAGGA GTTCGAGACC AGCCTGGCCA ACATGGCGAA ACCCCATCTC | 56340 |
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| GGAGGCTGAG GCAGGAGAAT TGCTTGAAACC CGGGAGGTGA AGGTTGCAGT GAGCCAAAAC | 56460 |
| ACGTCACTGC ACTCCAGACT CCAGCCTGAG TGACAGAGCG AGTCTTTATC TAAAAAATAA | 56520 |
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| GCAGACGTAT AGTTATTTCT GGATTATGTG CTAAACTAAT GGATTATTCA AGAATTTTC | 56640 |
| AGGAAAGAGG TGGACAATTC CCAGAACTAA GGGTCTTCC CCGTTTAGA CCATATAAGG | 56700 |
| TAACGTCCAG ATGTTGTCAT GGTATTTGTA AACTGTCGTG GCACTGGTGG GAGTGTCTTG | 56760 |
| TAGCATGCTA ATGCAGTATA ATTAGTGTAT ATGAGCAGTG AGGATGACAA GAGGTCACCT | 56820 |
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| CAAGATGGAG TCACTCTGAT TCAAATGCCT CTGACATATT TTCCCACCTCC CTTTACCAAG | 57060 |
| GGAACCCTTA ATCCTAAGGA TTGCAGTGGG ATAAAGATCC GTCTTCTATA ACTTCTTCAG | 57120 |
| ACTAAATAGG GGCAATGATA TTCCTGTCTA ATTATTAGGG TCTCTTGTGT CCAGGGTAGA | 57180 |
| GAGGAGCTCA GTCACAAAGT GTCAGTATGG TGAGACATTC ATAACCTCTGA GGCTTCCCAA | 57240 |
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| TCCTGGATCC CAAAAGAGGG AATCAGCCCT CTTTGGGGG ATCAGCCATC TCCCTGGGA | 57360 |
| ATCTTATCTC TCGGTGGGGA TGGAGACATT TCCATACCTT CTAGGTAGTC AAGAGAATGC | 57420 |
| TTCTTGTGAT CCAAAAGTGC AAATAGCCAA GTATTCACT ATATTTGCCT TTAGCTATCC | 57480 |
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| TAGAGATTGA ATATCCACTT TTAATTAAGC TTTAACCAT AAACCATAGC ACTCTAAAGC | 57780 |
| AAAAAAAAAA GGAGTCCTT TAAGTTCTT ATTACTCAAC TTTAGCCATC CCACACGGCC | 57840 |
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| ATATCAATCA GAAAGTACTC ATTCCCTAAG CCAGGATTGA ACCTTGGCCCG CCATTATAAA | 58020 |
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| ATTACATAAA CCCCCAAATT CCTGTTCCCT GGATGGCAGA GACCAAGAGA AAGTACCGCC | 58200 |
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| TGGGCTGGCT TGAACAGCAG GCTTATGGAG TCCTGAGCCC ATGTTCTATC CTACCATATT | 58380 |
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| GATAAACAGT GATTTTTACC ATTCATTCA TAGTTCACTAA GAGAGAGAGG CCAGAAGCCT | 58560 |
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| AAAACCAACT TTTTCTGTT TCATGGAACC ACAGGCAAAT AAATGTCTCT CACTTTGTA | 58740 |
| AGATGCTGCC CAATGGCAC ATAAAGTAAC CAAATTAACG TTTCCATT CAGCCAGAGC | 58800 |
| AATATACATG TGACAAAACA TAGACATTGG CCACTCCACT TAGCACCCAA TATCTAACTG | 58860 |
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| CACAGAGGCC AGAGAAAGAC CCACCCATTG CAGCAACACT GAATCAAAAG TTCAGGCAGC | 59100 |
| TGCTTGTCA AGCAAAGGGA TCTTTCCAA CAGTCCTATC AGCTGTCAAG CTTCCCTTT | 59160 |
| TGGAGAGAAG AAAAGTCCC AATGTCCCGT GATCCTGTAC ATGCCTAATC CTGTCACCCA | 59220 |
| TAGCTGTCAAG CAAAGAGCAC AGGGAAGATT AATACAAACA GAATAGCAGT TAACATCCCC | 59280 |
| TAATGCTAAA TCCGTTTTA ACCAAGAGAG ACTTTACTGA GAGGGCCTC TAACCCCTTA | 59340 |
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| TTGCCCTTTA TTAAGAGCGG ACTGAAACCC TCTCTGTCTT AGGAGAGACC CTATCTCCCC | 59460 |
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| TTCGTGGTCA CAGAAAGATT TACCAGAA- GGGTCTTGAT CCAGACCCCA AGAGAGGGTT | 59640 |
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| TATTAAGAAA GTAAGGAAAT AAAAGAATGG CTACTCTGTA GGCAGAACAG CAGCGTGGTC | 59760 |
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| TTCATGAGCA TTCCAAAAAA GGGGTGGACA ATTCCAAAAA TTGAGGGTTC CTCCACCTTT | 59880 |
| TAGACCATAT AAGGTAAAGT CCAGATATTG CCGCAGTATT TGTAAGCTGT CATGATGCTG | 59940 |
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| AACCAGAGGT CCCTTGGTG GCCATGTTGG TTTTGATGGG TTTTGGCCAA CTTCTTAC | 60060 |
| ACAAACCTATT TTATCAGCAA GGTCTTGTG ATGTGTACCT TGTGCTGACT TCCTATCTCA | 60120 |
| TCCTGTGACT AAGAATGCCT AACATACTGG AAATGCAGCC TAGCAGGTGT CAGCCTTATT | 60180 |
| TTATCCAGCG CCTATTCAAG ATAGAGTCAT TCTGGTTCAA ATGCCTCTGA CAATGCAGCC | 60240 |
| TTGAATTCTT GGGCTGAAGC CATCTTCCCA CTTCAGCCTC CTGAGTAGCA GGGACTACAG | 60300 |

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| GCACACACCCA | TCATGCCTGG | CTAATTTTT | TGTATTTTT | TTTTTAGAGA | TGGGGTCTCA | 60360 |
| CTGTGTTGCC | CAGGCTGGTC | TTGAGCTCCT | AGGCTAAAGC | AATCCTCCTG | TGTCATCCTC | 60420 |
| CCAAAGTGT | GGGCTTGTCA | GAGGTATTG | AACAAGAAAG | ACTCCATCTT | GAATAGGAGC | 60480 |
| TGGGTGAAAT | AAGGCTGAGT | CCTGCTGGC | TGCATTCCCT | GTAAGTTAGG | CATTGTAAGC | 60540 |
| CACAGGATGA | GGCAGGCAGT | GGGCACAAAA | TACAGGTCAT | AAAGACCTTG | CTGATAAAAC | 60600 |
| AGGTTGCAGT | AAAGAACCG | GCTAGGCCAG | GTGGGGTGGC | TCACACCTAT | AAGCCCAGCA | 60660 |
| CTTTGGGAGG | CTAAGGTGGC | TGGATGGCTT | GAGCGCAGGA | GTTGGAGATC | AGCGTAGGCA | 60720 |
| ACATGGCGAA | ACCCGGTCTC | TATTAAAAAT | ATAAAAAAATT | AGCTGGGTGT | GGTGGCACAT | 60780 |
| GCCTGTAATC | CCAGCTACTT | GGGAGGCTGA | GGCACGAGAA | TCGCTTGAAC | TCAGAAATTG | 60840 |
| GAGGTTTCAG | TGAGCTGAGA | TCGTGCCACT | GCACTCCAGC | CTGGGCAAAA | AAAAAAAAGA | 60900 |
| AAAAAGTAAA | GAAGCTGGCT | AAACCCCACC | AAATCCAAGA | TGGCGATGAG | AGTGACCTCT | 60960 |
| GGTCATCCTC | ACTGCTCCCC | ACCAAATCCA | AGATGGCGAT | GAGAGTGACC | TCTGGTCGTC | 61020 |
| CTCACTGCTA | TGCTCATACC | AGGCCACGA | CAGTTTACGA | ATGCCATGGC | AACGTCAGGA | 61080 |
| AGTTACTTTA | TATGGTCTAA | AAAATGGAGG | CATGAATTAT | CCACCCCTTG | TTTAGCACAT | 61140 |
| AATCAAGAAA | TAACCATAAA | AATGAGCGAC | CAGCAGCCCT | CAGAGCTGCT | CTGCCTATGG | 61200 |
| AGTAGCCGTT | CTTTTATTCC | TCTACTTTCT | TAATAAACTT | GCTTTCACTT | TACAGACTCG | 61260 |
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| CCCCTTCCG | GTAACAGGAT | TACAGGTGTG | AGTGAGCCAC | CATCCCCAGC | CTTAGTAAAT | 61380 |
| TTTTATTTC | GTTATTATAT | ATTTTTATTT | ATTTCTGTT | TTTCAGTTAT | TATATTGAA | 61440 |
| ACTCCAGAAAT | TTTTATTAG | AATGTATTAA | CAAATCAGGA | GTACTGGCAT | AAGCCTGGCA | 61500 |
| CAAAGCAAAT | GTTGACATAG | GTCTGGCACA | AAACAAGTGT | TCAATGCATT | TTAGCTACCT | 61560 |
| TTAAGTGTAT | TATTACTAGC | TGCTTCTGGG | GCTATCCGGG | GAAAATTATC | CTTGCAAAAC | 61620 |
| CCCCACTCAC | TTCCAGAGCA | GGCTTCAGTG | AAGCAGTCAT | CTGTGTCATG | ACAAGAGCCA | 61680 |
| AACTCTGTAA | AACATTGAA | GAGATTATT | CTGAGCCAAA | TTTGAGTGAC | CATGGCCCAT | 61740 |
| GACACAGCCC | TCAGGAGGTC | CTGAGAACAA | GCGCTCAAGG | TGGTTGGGAT | GCACCTTGGC | 61800 |
| TTTATACATT | TTAGGGAGGC | ATGGGACATC | AATCAAATAC | GTAAAGAAA | TGTACACTGG | 61860 |
| TTTGGTCCAG | AGAGGCAGGA | CAACTGGAAG | CAGCGGAGGA | GTGGGGTGGA | GGTGATGACA | 61920 |
| ATTGGTTGAG | TTTGTATAAA | GATTTGGGAT | TAATAGAAAG | GAGCACTAGG | TTGTGATAAC | 61980 |
| AGGTTGTGAA | GACCAAAGTT | GTACTATGGG | ATGAAGTTT | TAGCTAGCAG | GCTTCAGAGA | 62040 |
| GAATAGGTTG | TAAAATGTT | TTATCAGACT | TAAAAGCTGT | GTTGATGTTA | ATGCCAGAGA | 62100 |
| GGAATAATGA | GGCATGTTCA | ACCCCCACTT | CCCTTAATGG | CCTGAGCCAG | TCTTCAGGT | 62160 |

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| TACATTTAA | GAAGCCTGAC | TGAAGAGAAA | GTCTATTAG | ATGGTTGGGG | GCTTTAGAAT | 62220 |
| TTTATTTTG | TTTATACCT | TTGCCCTTGG | AAGTTTGCT | GAAAAATGAA | CACAAAAAAA | 62280 |
| GGCAGATTCA | TAAGATAAAA | GGCTTACAA | TTAATTACT | CTGTGGTTCT | CCTCATGCAC | 62340 |
| ATAGTACCAA | TATCCCAGTG | GAATTAGAA | GCTTATATGC | CACCTTGAAG | TTGAAGAAAT | 62400 |
| AACAGGGGCT | TGATCCTTGC | AAAATAGGTT | ATGGGAAACA | GAAGAAGAGG | AATTCTGTTG | 62460 |
| AGGGGCAATA | TGTAACTACC | AGGAGAGACT | AATTGGATCA | AAGAACAGAT | AAATTTGTAA | 62520 |
| ATAGTTCTCC | TTGGAATTAA | AATGATGCTT | AGAGACTGAT | TATCTTATAA | AAGGGTCTGT | 62580 |
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| TCTTTAGTGT | CTGTTGATCT | CTAAGAGTTT | TTCATTCAAA | ATACTCATTA | TATCAGGAAG | 62760 |
| CCACATTTG | GGGTGAAATT | CACTACTCCC | TTTAGAGAT | ACGGGTACAA | ACTGTTTGTA | 62820 |
| AAGAATGCTA | AGACTTTGCC | GGGTGCAGTG | ACTCACGCCT | GTAATCCAG | CACTATGGAG | 62880 |
| GGGCCAAGGT | GGGCAGATCA | CTTGAGGTCA | GGAGTTCAAG | ACCTGCCTGG | TTAACATGGC | 62940 |
| AAAACCCAT | CTCTATTAAA | AAAAACAAAA | ATTAGCCAGG | CGTGGTGGTG | GGCATCTGTA | 63000 |
| ATCCCAGCTA | CTTGGGAGGC | TGAAGGCAGG | GAGAATTGCT | TGAGCCTGGG | AGGCAGCTGT | 63060 |
| TGCAGTGAGC | CGAGATCACG | CCACTGAAC | TCAGCCTGG | CAACACAGCG | AGACTGTCTC | 63120 |
| AAAAAAAAAA | AAAAAATGCT | AAGACTTACT | TTGGGACATC | CTTGTCAAGG | GTCCATGATT | 63180 |
| CTGATTAGCT | CAAGGCAGGT | ATTTTTTTTT | TTAATAGAG | ACAGCATCTT | GCTATGTTGG | 63240 |
| CCAGGCTCGT | CTCGAACTCC | TGGCCTCCAG | TGACTCCCCC | CACCTCAGCC | TCCCCAAGTG | 63300 |
| CTGTGATTAC | AGGTGTGAGC | CACCACACCG | GTCTGGTTTT | TTTGGTGGT | TGTTGTTTTA | 63360 |
| ATCCTATAAT | CCTGTGTCCT | TTCTTCCTAC | CTCTGAGTAG | TGCTTACTCT | CTCCCCTTA | 63420 |
| GTCATTTGAA | AAGTTATCA | GAAAGTGGGT | GCAGTTTCAG | GCTGGGTACC | GTGGCTCATG | 63480 |
| CCTGTAATCC | CAACACTTTG | AAATGCTTAG | ATGGGAGGAT | CATTTGAACC | CAGTTCAAGA | 63540 |
| TTACAGTGAG | CTGTGATCGT | ACCATTGTAC | TTCAGCCAGG | GTGACAGTGC | AAGAGCCTGT | 63600 |
| CTCTAAAAAC | AAACAAAAAA | TTGCTTCAC | ACTGTGATGC | TATCACATCT | CTCCTAAGCT | 63660 |
| CTTGTGGGG | CTCAGAAATT | GATACCCTAA | TATATGGCCC | TTGGTCATAT | TGAACTGAAG | 63720 |
| AAGCCTCAA | GTCTCTCTGA | CATCCCTGCC | ACCAACTATC | CCTACCAAAA | CACATCGTGG | 63780 |
| AATTAAAGTT | TCTTATCTA | CCTAAGATCC | AGACCCACCA | AAAAGAGCAA | TTATTTTTAT | 63840 |
| TTACCCCTTCC | TGTAAGACCA | AGAATGTAAC | CATGCCGAA | CGGACTTTCA | CAAGATAATG | 63900 |
| TTCAAGTTAA | TCTCTGTTCC | CTGATCTACT | TACTCTCCCT | AGTAATGAAA | GGAGTTGGCC | 63960 |
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| GGAGCAAAAAA TCCGCAACAG TAATCCCATC AACAGAGTTT CTCTTCTTCC CCTCCCATAA | 64440 |
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| TCCAAACCAT CAGTATATCC TACAGGTGGG AGAGAAGCAG CTGTCTGGGA ACCAGTAAG | 64740 |
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| GTGTTGGTCA GCTTCTTAC TGCAACCTGT TTTATCAGCA AGATCTTAT GACCTGTGTC | 66540 |
| TTGTGCCAAC TGCCTATTTC ATCCTGTGAC TTACAATGCC TAACTTCCTG GGAATGCAGC | 66600 |
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| TCATTCTTTC TCCTCTCTCT GTGTGCTGGT TGCCCTCAGGA GTAGAATGTC CCATGCTATG | 66840 |
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| AGGCCAGTGG CTCCCAGAAT TCAAGTTAA TTTCTCCTCC CACCTGTGTC CTGAGCTCCC | 67140 |
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| TAAATGCCTC TTACACCTGA GACTTATAAA TGTGACAAGC TCTTATTGTG AGATAGTAAT | 67260 |
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| TTGAAGAAGA TCTGAGTCCT GCAGAAGGAC AGCAAGGAGA AAAACAAGAC ACAGAACGGG | 67560 |
| ACAGAGAAGA ATAGAAAGCT GACTCAGATG AATTTGTGA TGCCAATGAG TCCTACTGCT | 67620 |
| GTTACCACCC CTTTTCCAC CACACCCTTC AGAGCAGTTA TAGAACACAA AGCAACCCAT | 67680 |
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| CAAAAGTAGA AAGATCTCAA ATCAGAGTCT GTGAACGTGAA CCTCTGCAGG CTTCCGTGTTT | 67800 |
| TTAGATACTC TGTGTTGGGG TCACATGATA GTTACAGGG TTATTAATTG GTTCCTTCTT | 67860 |
| TTTATTGCTG TAAAAGAAGG ATATTTCTT CCTACGTTTC CCCCTCCTT ACCGGAGAGG | 67920 |
| CGGAGTGCAA ATGATATGAA CAACGTCACT AGTTTCTCC TAAATCTTAT GAGCCCCGCC | 67980 |
| TCCCACAGTA GTTCACTTC TCAGTTAAT CCGGTCTGAG TTAACCTCCT GACCCAGGAA | 68040 |
| GTGGCAGCAA CAGAGGGGAC TAGCAGCGAA TATGTAAGTG TCTGAGCAGT GAAGGTTACG | 68100 |
| GAAAAGGTCC AGGCTAAGGT TTTCTCAGTG GATATGTGAG TGTGTACTGA TGGCAAGTGG | 68160 |
| GGTGGGAAAT ATATTCGTG ACAGCAGGGC CCCTCCAAT CTGAAAATGG TCAGGACTTT | 68220 |
| CTTTGTTTA CAGCTCTCAC CTCTTCCTG CTCTTCTTT CACCAGACTT TACACCAAAT | 68280 |
| CTCAGAAGAT TCAGAACTTA GATGAGTGGG GCCCAGGACA GGAACCCCTGG AGCCTTGGAA | 68340 |
| GGAGGGGAGC CCCATCTCCC CAGAAGAGCA GTGACCCAG CAGAGGGGG CCTGGTGTAT | 68400 |
| CACTGGAGGA AATAGCCTGC CAAGGAATAC ACGTCTTCAG AAGAAATTCT GTGTGGCTTC | 68460 |
| AAGAGACTGA TCAAATTGTG AGAGGAAAAC AGCTACCCG GTAATTGTAG TTAAATTACT | 68520 |
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| TCCCAGGAGT AGGGGTGTGG GGGCGGGCGG GGGGGAGGGG TCGGGGGTAC AGGGAGAGCC | 68640 |
| CAGCTAGGTT CTCAGAAGAG GCAGGCTTT TCGCTCCTGG TCACTCCTCT GTGCCTATC | 68700 |
| CCTGGCCTCC CCCATCTTCT TTCTGCCTTC CCTACCTCCT TGGGTCTGCA AACTCTTTAT | 68760 |
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| AAGTAAACTC CCCAGTTCTG CAGGAGCTCT GATCCCATAG AAATAACTGC TCCTCAGGAG | 68880 |
| CAAACCCCTCT GCTCTGCAGC CTTCTTCCA ATTCTTATTC CCTCAGTTA GGGAGAGGGC | 68940 |
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| TCCTGGTTGG GTCTCTAGCA AGACGTTATT AGCCAGGGAA GTCCCACCTTA GGCACCCCTC | 69060 |
| TCTGCAGAAC AGGTATTCAC TATTCTCCTT TCTCTTCTT TTGCCTATTA TACCTCTGCT | 69120 |
| CCTGAAAGCA AAAACAACAA CAACAAAAAC ACAAACAAAA AACAAACCGAC CTTATTAACC | 69180 |
| AGTGTGGTT GTTGTCTTT GTGGGGGATG GGGGGGGTCG AGGTGGAGTC AAATTTTATT | 69240 |
| GTCATGATGG TGTAGGAGCC AAGGAAACAC TTCCCCTTG CCTTCTGAAG TTCACTGAA | 69300 |
| AATCGACTCA CAAAAGGCAG GCTAATTGGA GAAAAGGCAT ACAAAATTAT TAACAAGTAC | 69360 |
| ATGGGCTAGA ATCACAGAGT GATTACCCCC TCTGCCAATG GGGGTAGATA CTTATATAGC | 69420 |
| CTTATTTATA AATACTTATG TATAAATACA TAAATATAAA TATGTATGCA TATGTATGTA | 69480 |
| TGTATAAAATA TGTATGTATA CTGTATAAAT ATGTATGTAT AACGTTTATA CATGTATACA | 69540 |
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| GTGAAAGTGT | CTGATTAGGT | CTGGTAACAT | TCTTAGTCCT | CTTTTCTTCA | GTACAAAATG | 69780 |
| AGATAATAGG | GGTTGGAAGG | AAAAACAATT | GTTCTTCTTG | TCTAGTGTGA | CTGGTCTTTA | 69840 |
| TGTAGATAGG | GGAAAAGTCT | CTTCCAGCAT | CTGCTGATCT | CTAAGGGCCT | TTAATTCAAA | 69900 |
| ATACTCATTA | TACCAGGGAG | TCATATATTG | GGGTGAAGCT | CCCCATACTC | CTTCAATGGA | 69960 |
| ATCTGTCACA | GATCACCCAA | TTGCATAAGT | GTTACTACTA | ATTACAAAGA | GTAATTCTGG | 70020 |
| TACCAATTAT | TCTTTTTTTT | TTTTTTAAGA | CAGATTCTCG | CTCTTCACC | CAGGCTGGAG | 70080 |
| TGCAGTGGTG | TAATCTGGC | TCACTGCAAC | CTCCCCCTCC | GGAGCTCAAG | TCATTCTCCT | 70140 |
| TCCTCAGCCT | CCTGAGCAGC | TGGGATTACA | GGTGTGCACC | ACCACATCTA | GCTAACCTTT | 70200 |
| TGTATTTTA | GTAGAGATGA | GGTTTGCCA | TGTTGGTCAG | GCTGGTCTCA | AACTCCTGAC | 70260 |
| CTCAGGTGAT | CTGCCCGCCT | CGGCTTCCCA | AAGTGCTAGG | ATTACAGGCG | TGAGCCACCG | 70320 |
| TGCTGGCCTG | GTAACAATT | TTCTTGAAGT | TAACTAGAAT | AGGAAAGAGT | TTCACACTCC | 70380 |
| CTGAGTTCTC | TCTTTTACAG | CTTTTGTGAG | GAAGCCTGCA | TTGCTTCTCC | CAGCACTTGG | 70440 |
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| AGCTATACAG | CTAGATGTTT | GTGTATCCTC | TAAATTCCAA | TGCATTCTT | CTTTCTGGAG | 70680 |
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| AGGCAGGAGG | ATTGCTTAAA | CCCAGGAGGT | CGAGGCTGCA | GTGAGCTGTG | GTCATGCCAC | 70800 |
| TGCCCTCCAC | TACAGCCTGG | GCAAGAGAGC | GAGAACTTGT | CTTATAAGAA | AAGAAAAAGA | 70860 |
| GGCTGGCAC | GGTGGCTCAT | GCCTGTAATC | CTGGCACTTT | GGGAGGCTGA | GGCGGGTGG | 70920 |
| TCACAAGGTC | AAGAGATCGA | GCCAACCAAC | ATGGTGAAAC | CCCATCTCTA | CTAAAAATAC | 70980 |
| AAAAATTAGC | TGGGCGTAGT | GGTGCACACC | TGTAGACCA | GCTACTACTC | GGGAGGCTGA | 71040 |
| GGCAGGAGAA | TCGCTTGAAC | CCGGGAGGCG | GAGGTGCAGT | GAGCCGAGAT | AGCGTCACTG | 71100 |
| CACTCCAGCC | TGGGTGACAG | AGTGAGACTC | CGTCTCATTA | AAAAAAAAAA | AAAAAGTTAG | 71160 |
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| CAAAATTAT | CAGGACAAGT | GAGGCAGGAG | TATAGGTCTT | CCAGTTAAGA | CCCCATGTTT | 71280 |
| TAAAAGCATT | TTGTTCCCTGA | CTGGCTGCCT | CATCTATTAC | CTACATATTC | CCGAGATTTG | 71340 |
| TTAATACAAA | GAAACAATGT | TATAGCCAGT | CCAAAAGCTT | ATGCTATTT | AATGTTAAAT | 71400 |
| CCTTGGCAAA | CAACTTTAAA | ACTGCTTAA | ACTGCTTTTT | TCCTCTAAC | CACTTGTACT | 71460 |

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| GGGGTTGGAA GGAAAACTTT CAAGACCTAT GGAAGTCAGT TGCAGCCAGC TCATCACATA | 71640 |
| GAGGTGCAGG TGAGGTGTAT TTTCATCACG GTGGAAAATT CTGGCTGCTT CATCTCCATC | 71700 |
| TCTAGAGCCA ATATTGGAGC TTTTCAATAA AAGCTATGGC CTCAACCACC AGCACCAAGA | 71760 |
| AGATGATGGA GGAAGCCACC TGCTCCATCT GCCTGAGCCT GATGACGAAC CCAGTAAGCA | 71820 |
| TCAACTGTGG ACACAGCTAC TGCCACTTGT GTATAACAGA CTTCTTTAAA AACCCAAGCC | 71880 |
| AAAAGCAACT GAGGCAGGAG ACATTCTGCT GTCCCCAGTG TCGGGCTCCA TTTCATATGG | 71940 |
| ATAGCCTCCG ACCCAACAAG CAGCTGGAA GCCTCATTGA AGCCCTCAAAG GAGACGGATC | 72000 |
| AAGAAATGTC ATGTGAGGAA CACGGAGAGC AGTTCCACCT GTTCTCGCAA GACGAGGGGC | 72060 |
| AGCTCATCTG CTGGCGCTGT GAGCGGGCAC CACAGCACAA AGGGCACACC ACAGCTCTG | 72120 |
| TTGAAGACGT ATGCCAGGGC TACAAGGTGA GTGTGTGGC CCGGGAGCTT TGGTAAGTAC | 72180 |
| CAAAGTCTTAT CCTGCTCCCC AGGAGCTGAG ATGATTTAAC TTGAAACCTA ACATTATGAC | 72240 |
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| TGCAGTAGGG CCTGAAAACA GGGAAAGAAAG ACCCATCACC TTTTAGGTAT CTACAGTCTA | 72540 |
| GTAAAGAAAA CAAACCATCA AAAATGTCTG CCTGGAGGTC CCTGGTTTG GTGGTGGGG | 72600 |
| GGGACATTAA GGGTAGAGAG TGGTCATCT TAGAAGTAAC TCCTGAAGGA CACGTAAAAA | 72660 |
| TTGAACACCT ATTGGGGGAT TTTCATTTGG GGAATGAAGG GTCAGTGACA TTGAAAATAT | 72720 |
| CACTCTGGTA CCTCTACTTT TTTTTTTTTT TTTTTTTTTT TTTCCTGAGG TAGGGTCTTG | 72780 |
| CTCTGTATCC CAGGTTGGAG TACAATGGTG CAATCTCGGC TCACTGCAGC CTCAACCTTC | 72840 |
| TGGGGCTCAA GCAATCCTCC CACCTCAGCC TCCCAAGTAG CTAGGACTAC AGGGATGCC | 72900 |
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| GCATGAACCA CTGTGCCAG CTACTGTGGC ATGTCTATGA TAAAAGGAAT ATCAAGGAGT | 73080 |
| AAAATTCAAA CTATCCGTAT AAGAAAGGGA GGAGAGGGCA GATTTTAAGC ACGATTCAAGG | 73140 |
| AAGAAGAGTC AAAGATTGG AAATGCTTGG TTGTGGAAGG TGAAGCAGAG GGAGAGGTTT | 73200 |
| TGTGTACCAT CCAGATTCT TGCCAGAAAG CATATTAAGG AAGGTGGAC TTTGCTGTTG | 73260 |
| GCAGCATGGA GGAATGGGCA TAGTCCTGAT GTCCTTTTC CTTCTCTGTC CTGCCTAAAT | 73320 |

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| TTGAGGAAAA TGTTGTCTCC AGTGTCAAGGC TCCTTATTCT GTCCTCCATG AGGCAGAGGT | 73380 |
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| TCATGGCAGC TCTTCCTTAA ACTCCATGGA GCAGCTAATA ACTGCGATGA TCATATTCCC | 73500 |
| ATTTGAATTA CTTTCCACC AAGTAGTAAG AAAAGGAACC AGCTTATGTT GAAATTGAGT | 73560 |
| TTTGTCACTT ACTAGATGGG CAATTTGGG CACGTTACTT AATGTCTTCA CACCTTGGTT | 73620 |
| TCTCCATCTG TAAATGGGA TAATAGCAGT GTCCTCCCTC CCTAAAACAC ATACACAGGA | 73680 |
| GGTGGTTATA AGCTTGAGG ACATTAAT ATAGAATGCA TAGAATAGCA CTTGGCATAT | 73740 |
| AGTAAGGACA ATGTCATCTT TTGCTAAAAC AGTTACATAG AACCTTTCC TGAGAACACT | 73800 |
| CGAGAATGAA TGAGTATACT TGTTGGTTT ACAGAGGACA GGAGACAATT CTTTCAGCAT | 73860 |
| TGACTACAAT TAGCAATTG GGTCAAGCTTC AAATCACTTT CAATAGAAAT ATGAGAAACT | 73920 |
| GTTTGAAAGA ATAAGCTAAA AGCTTGACAT GAATACTAAA TCATTTAAA TTGGATTCAT | 73980 |
| GATACCATTG TTCAAAAGAT ACCAGAATTC CCCTCTTCCA TGAACTGTTT CTAATAACCA | 74040 |
| GCTGGCATCC TGATTTTCC TGACTCATAA GACACAAAAT TTCATGTTGT TGCCAAACAC | 74100 |
| TGGTATTGGT TTTGCTTGGT TCAGCATGTT GTTTACAAA ATCTTTAGA TGATGATTAC | 74160 |
| CTTGTCTAT ATCCAACCTT TTCCCTGGCAG GACTCTAGTG GTGGACATAG CTCAGGCTCT | 74220 |
| GGGTCAAGCAG ATGAGATTGC AATTGTTGCT CCACCACCTG GCAGTCATAG CCCTTGGGC | 74280 |
| AAGTTATTTC ACCCCTTCT TAGTCTCATT TTCTACAGCA CAGAAATGAA GTTAAAATC | 74340 |
| CTACCAACTA TTCAGGGTTG CCAAGGGGAT CAGTATGTTG CTGCACATAT AGCCTTAGC | 74400 |
| ATGCTCTCTA GCAAAAACA ATGAGGACTC TATAAATATT CACTATTATT CAAATATATC | 74460 |
| TTAGAAGATT GGGATTCCCC CTAGGTCCCT AATGAAGAGT CAAATTGAAT AGGCTTCACT | 74520 |
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| AGACAGATGT ACGGAGCAGA AGCTGTCCAC AGCAATGCGA ATAACCAAAT GGAAAGTAAG | 74640 |
| AATCTGACTT CATTGATCTC AAGCTATTTC CCATTCTAGA GCTTAGGCAT AGGGGATGAT | 74700 |
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| GGAAGAAACC ATTATTTGTA CTTATGCCCT TGTTCCAGG TTTACATCCA TGAGTATTAA | 74820 |
| GCACCAATCT TTCCATCTT AAACTGTAGT TGGCTGGGAT TCCTGATACT TCAGTCAGAA | 74880 |
| GAAGCAGAAT TAGTATGACT ATTACCTAG AAAAAGCAGC GAGTGGGTCT CAAACTTAA | 74940 |
| ATACGTCAAAT AAAACCTGG TTTGCAGGCC TCAACTCATT ACCCTGGCAC TTTTACCACA | 75000 |
| GTGGAGCAGTC TGGCTCTCAA CTTTACAGGT ACAGAAACCA AGCTTGTGA ACACCTAGAA | 75060 |
| AACAGGATCA CTCCAGATTG AAATTCTAC TACTCTAGCT CATGAAGCTG ATGAAAGAAA | 75120 |
| TATACTTTAT TTATTTATT ATTGAGATG GAGTCTTGCT | 75180 |

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| TTTTGTATT TTAGTAGAGA CGGGGTTCA CCATGTTGGC CAGGATGGTC TTGATCTCCT | 75360 |
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| GCACCCGGCC TATACTTGAT TTATAAGTAC ATCACAAAGTA ATGCAACAAC CTACACACTT | 75480 |
| GCAACTACAA ACTTCAGAT TATTCCTGTG GCTGACTAAC CTCCACATTA TCAGAGGCCAC | 75540 |
| ATTCTTTAT GGAAATATTT AGGTTTGTGC AAAAGTAATT GCGGTCTTG CCATTAAAGT | 75600 |
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| TCAGTCTTAC ACATAGGAAT GCTTAAGATG ACCCTAGGGT AGTAGAACAG TATTCTCAG | 76200 |
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| ACCACTTTA AGTATATAGT TCAGTAGAAT TAAGTGCTTT TACATTGTTA CATTGTTGTG | 76740 |
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| TGTATGTTA TTTTATTTA CATTGCCTTC AAGCAGATGC AACAAATACA TTTTAATCAG | 80820 |
| TCAAACAAATA TAAAGGATAT AAGGAGAAAG TTCAAGGTTT TTCCCACCCG TCTCCAATCT | 80880 |
| GACTTCTCTA GGTAGGGTGA TCTATATCTT TCCCTAAGTT TGTACAAACG TAACATATAT | 80940 |
| ACACTGTCTC TTCTATGTTA CTCGTTACTT TTTATGTCTA ATATTCCATA AGAATATAAT | 81000 |
| AAATATATGT AACCATAATCC CTACTGATGG AGCTTCAGGC TGTTTTAGA ACTTAGTTAT | 81060 |
| TACAATGTTG CTACAATAAC TTTCTAGTCC ATGCATCCTT ATATCCTGGT GCTTCATTT | 81120 |
| CTTTGGGAA CATAACCCAA ACTGGGATTG CCGAGGTTGT TGTTAATCTT AATATATGGT | 81180 |
| ACCATATTAC TTGACTCAAA GTTGTAACAT ACACTCCTAC CAGCACCAAGG AATAATGACT | 81240 |
| CACATATACT GAGCACTCTT TAGTCTGTGA CAGATTAGAA AAGCTTACT TTTCTGGTT | 81300 |
| CTTGTGTTAT ATCACAGTCC TCTCTATATG GGGCATTTTT GCTTTATAGA GGAGGAAATA | 81360 |
| TGACACAGAG AGGTTAGGTG AGTGTGTTAG GATCTCATAA CTAGAAGGTA GTCATAGAAA | 81420 |
| GAGTCTAGAG TCTAGAAACC ACTCTCTCAC CATTGCAA TGTGGCAGAA AATGCAAAGT | 81480 |
| TGTTATTTAC TTATCTCTTT TAGACAGGGT CTCACTCTGT CACCCAGGCT GGAGTGCAAT | 81540 |
| GGCCCCATCA TGGCTCCCTG CAGCCTTAAA TTCC T GGGCT T AGCAATCC TCCCACGTCA | 81600 |
| GCTTCCCCAG TAGCTGGAC CACAGGCAAG CACTGCCACG TCTGGCTAAT TTTTAAAAAA | 81660 |
| TTTTTGTTAG AAACACTATC TCTTTATTTT GTTCAGGCTG GTCTTGAACCT CCTGGGCTCA | 81720 |
| AGCAGTCCTC TCGCCTCGGC CTTCTAAAGT GTTGGGATTAA CAGGCATGAA CCACCATCTC | 81780 |
| CGGCCTGAAG TTTATTTAAT CCATTGCCTT GTGGACTGGG CATTGAAGTT GTGTGTAGTT | 81840 |
| GGGTTTTTTT GTTGTGTTTG CTGTTGCAGA CAATACTACT GTGAACATTC TTATCCATGC | 81900 |
| TTCCTTGTGT CCCGTAAATG TTCCCTCCAG GGAGATAACCT TGGAGTGACA TGCTGGTGTG | 81960 |
| AGGGATGCAT ATCATAATTT TACCAAGATAC TACAGATCTT GAAATTGTTCA CAATTCTACC | 82020 |
| CCACAAGCAA TATAAGAGCT CTCACTCCTC CAAAACCTCCC TGAGTCTTTA CTTATATAAT | 82080 |
| TTATGATTGTT GACAGTCTTA CAGATTTAAA ATGGTACCTA ATTGTGTACT TAATTTGTGC | 82140 |
| TTTTCTGATT TCACTAGTGA GATTGAGATT CTTTTGTAT GTCCATTAGC CCTTCAGGCC | 82200 |
| TCTGTGATT ACCCATGATT TACTGTGGTT TAATAATTT TATTGGGTTCA TTTTCCTTAT | 82260 |
| TGATTATGG GAACTTATTA TAGCTGATAT CTTCTGGCAT GTGGATGGCA TTTTGATTT | 82320 |
| TCATCCTGTT TTTTGATAAA TAGGGTTCA AAATTAAGTA GACACATTTT CCTTCAGGTT | 82380 |
| CTGTGTCTTT TATGTCCAAA GAGCTTAGTC ATCAGTGGGC AGTGAATTTC ATCACCTAAT | 82440 |
| TAATTTTATT AGCCCCGTGT GCTATGCCTG TAGTTCCAGC TACTGGGAG ACTAGGGCAG | 82500 |
| GAGGATCTCC TGAGCCCCAGG AGTTCGAGGC TGCAGTAAGC TATGATCACG CCACTGTACC | 82560 |
| CAGCCTGGGC AACAGAGCTA GACCCTGTCT ATTAAAGGAG GAGGCCGGGT ACAGTGGCTT | 82620 |

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|-------------|------------|------------|------------|------------|------------|-------|
| ACGCCTGTAA | TCCCAGCACA | TTGGGAGGCC | GAGGCAGGAG | GATCACTTGA | GGGCAGGAGT | 82680 |
| TTGAGACCAG | CCTGGCCAGC | ATTGTGAAAC | CCTATCTCTA | CTAAAAATAC | AAAAATTAGC | 82740 |
| CAGGTGTGGT | GGTGTGCACT | TGCAGTCCTA | GCTACTCTGG | AGGCTTAGGC | AGAATTGCTT | 82800 |
| GAACCCAGAA | GGCAGAGGTT | GCAGTGAGCT | GAGATTGTGC | CACTGCACTC | CAGCTTGAGC | 82860 |
| GACAGAGTAA | GACTCCATCT | CAAAAAAAA | AAGAAGAGAG | ATGAAGGAGG | AGGAGGAAGA | 82920 |
| GAAAGAGGTG | GGGGAGGGGA | AGGAAGAGAA | AGAAGAAGAA | AGGGACAAAA | AAATTAGCT | 82980 |
| GTCATCTTG | CTCTGATAGC | ATTATAATGA | TGATGAAGAC | AATTGCTAGG | TTGGTGAGAG | 83040 |
| AAGGCTATAT | ACACACCAGA | ACTCTCCACG | TATATGGCAA | GTTCATATAT | TTTGTAAAGT | 83100 |
| ATGTCTCATT | GGAGACCTTC | TTTTCCCGTA | ACTATGACCA | GTGCTCTGCC | AGCTCAGTCA | 83160 |
| ACAACAAACAT | TGCATGTTGG | CTCCATACCT | GGACTCTTGG | TCCAATTGGT | AATGAAACCA | 83220 |
| TCCCACCAGT | GTCTTCATAA | TATATATATA | CACACACACA | TATATATATA | GTATTCTCTC | 83280 |
| CCAGTGTCTT | CATAATATAT | ATATATACAC | ATACACACAT | ATATTATATT | CTCTCTATAC | 83340 |
| ATATTATTT | ATATATCTAT | ATCTATATCC | TTCCACCTCA | GGTCTCCCTC | TGTCTCCAG | 83400 |
| GCTGAGTGGT | GCAGTAGTGC | GATTATGGCT | CAACCAATGA | GAGGATCAAT | GGCAATCCTC | 83460 |
| TCATTTCAAGC | CTCCCCAGTA | GCTGGGACTA | CAGGQATGGG | CCACCACATC | TGGCTGATGT | 83520 |
| TTAAATTTTT | TTGAGACAGC | ATCTCTATAT | GCTATAGATA | TATATAGTAT | CCTCTCTCTA | 83580 |
| ATATGGATAG | AGGATACTAT | GTCTATATCT | GTATCTATCT | ATCTATGGAG | AAGGAATACT | 83640 |
| ATATATCTAA | TAAGATGTAA | TCTATATTAT | ATATAAAAGT | GAAGCATTGA | TTGGTACATA | 83700 |
| TAATATATAT | ATTGATTACT | GTGTGTATAT | ATTGTTTTT | TCGAGACAGG | CTCTCACTCT | 83760 |
| GTTGCCAAG | CCGAGTGGTA | CAGTGGTGC | ATCATGGCTC | CACCACCTGA | GCTAAAGTGA | 83820 |
| TCTTCTCACC | TCAGCCTCCC | CAGTTGCTGG | GACTACAGGA | ACAGGCCACC | ATACCTGGCT | 83880 |
| AATTTTTAA | TTTTTTTTG | AGACAGGGTC | TCCCTTGCC | ACCCAGGCTG | GAGTGCACTG | 83940 |
| GCGCAATCTC | GACTCACTGC | AATCTCCACC | TCCCAGGCTC | AAGTGATCCT | CTCACCTCAG | 84000 |
| CTTCCCGAGT | AGCTGGACT | ATTGGTGTGC | ACCACAATGC | CTGGATAATT | TTTCATATTT | 84060 |
| TTTGTAGAGA | TGGAATTGG | CCATATTGAC | CAGGCTGGTC | TCAAACCTTT | GGACTCAAGT | 84120 |
| GATTGACCCG | CCTCAGCCTC | CCAACGTGCT | GGGATTACAG | GCATGAGTCA | CTGTGCCTGG | 84180 |
| CCTGATTATT | GTACACATTT | TTGATGTAAT | GTATTATATA | TGTCATATAT | GACAATCTAG | 84240 |
| ATGAATATAT | TAAAGATTGG | GTTCATTTT | ATATATTGTA | AAATACATAC | ACTATACATA | 84300 |
| TATAATATGT | AGAACATATG | CTATACATAT | TATATATGTA | TATGTTAAC | TATATAATAC | 84360 |
| ATACACATAT | AATATGTATA | GTTGCAAATA | TAAAATTGG | TTTGTATTT | ATATTATTTT | 84420 |
| GTGCAGGAGT | TCTATATCTA | TGTCTATAAG | CGGGAGCCAT | AATTTCTAT | TCTTGTAGG | 84480 |

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| ATTTGGTATG AGATTGGCAT TACTCATGCC TTGACTTCTA AATTCCTAT AAAACTGACA | 84540 |
| AGTTCCATT TTGCTTGATA AAGATGCACG TTTTATTATC TGCGGTAAA ATTAAAGTA | 84600 |
| G TGATTCAT TTCTTAATG TTAGGTCTGC CCATGCTTA TTTGTTTTT GAGTGAGTT | 84660 |
| TACTCAGAAA TATTTTTCT AGGAAGTAAT AATTTATCA GTACTTCAA TTTTATTAGT | 84720 |
| AGCATAAGAT TTATTATAAA GTTCTGTAAT ATTTAAAAG TTTCTGTATT CATCCATT | 84780 |
| GTGCCTCTG TCCTACTTG ATAAATCTCA TTGGAGGTAT GTCTATTAA TTAAATTCT | 84840 |
| TTTAAAAGAA GCTACCTTT TTTTGTTG TTTTCCTCT TTATTGCATT CTTGTTTCT | 84900 |
| TTAACCTCAC TGTTATATTG TTTAATATCT ATTTTTCTT TTTAAAAAAAT TATATTGGC | 84960 |
| TTTCTATGTT CTTTTAAAAA TTTAAATTAG ATGCTTGGCT CATTAATGTT CAGCTTTA | 85020 |
| ATTTTCTAA GATAAGCATT TAAAGCCTAC AAATTTCCCT TAAAATTCTG CTTAGCTTC | 85080 |
| ATTGTATATT TTTATAAATA ACTTTTATT ATTGTTCCAT TCTATACATC TTCTAATGAC | 85140 |
| TTATTAGTAG TTTACATTTC CTAATATTAA GAATCTTTT AGTCATCTT TTATTATTGG | 85200 |
| TTTATAATCT TATATTGAGG CTAGAGAAA TGATCTGTGT AATACAGATT TATTGAAACT | 85260 |
| TGTTCAGACT GTTTCTGCC TAGTATTAC TCAGTTAGTG CATGTTCCAT CTATACCTGA | 85320 |
| GAAAAGTCA TATTCTCTGC TTACTATTAT TAAACAATTG CTGAGCTTTA TGTATTGACT | 85380 |
| ATGAGATTGC GCTTCTTAGA TTGTTCAGAC CTTCCGTATC TTCCCTTATT TCTTCTTTT | 85440 |
| GGTCTGCCTG ATCTATCAAT TATGGAAAGA AGAATGTTAA AACATCCCAT GATGATTGTA | 85500 |
| GATTGTCCTA TTTCTCCTAT AATTCTACAA TTTTGCTTT GTATATTAAC ACAATTCTAA | 85560 |
| ACATGAATTC ACTAATAATG TAGTACATTG ATGTTAAAA TTGTGTTATC TTTTTAGGT | 85620 |
| GAECTCTTTC ATTCTTCTT TTTTTTTTT TTTGAGACAG AATCTCTCTC TGTCACCCAG | 85680 |
| GCTGTAGTGT AGTGGCGAAA TCTCAGCTCA CTGCAACCTC TGCCTCCCCG GTCAAGTGA | 85740 |
| TTCTTGTGCT TCAGCCTCCC AAGTAGCTGG GATTACAGGC ATGTGCCACA ATGCCAGCT | 85800 |
| AATTGTTGTA TTTTGTTAG AGCCAGGGTT TTGCCATGTT GGGCAGGCTG GTCTTGAAC | 85860 |
| CCTGGCTTCA AGTGATCCGC CTGCCTTGGC CTCCCAAAGT GCTGGGATTA CAGGCATGAG | 85920 |
| CCACCACACC TGGCCCTTCT TCCATTCTTA ATAATGCTCT GACTTAATAT CTTTGATAT | 85980 |
| AATACTATAA CAGTATATGA CTATATTATC TATCTTTAG CTTCCAATCT TTCTATATGT | 86040 |
| TTTGTTGAT GTGTCACACC AATAGATAGG TGGAATTAA AAAATCCAAT TGATATTCTT | 86100 |
| TCTCTTAAGT GGTATTACCA CCCCGTAAAC ATTTAATT CTCAACATGG GTTTCCCTGG | 86160 |
| GTCATTCAAGG TAATATGAAT TGAAACCCCA AACTCTGTG AGTCAGGCTG ATAAAAGCTA | 86220 |
| ACTGAATAGA GTTGAAAAA GGAGGGTATT TACAAAGGTG AGGAGTTGGG AAATCCACAA | 86280 |
| GGAACAGGAA GCACCCAGAA CTAGGAACAG TTAGAGAGCC ATCACCTCCT CTGGGCCTCA | 86340 |

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| AGTGGCAGGT GTAGGGAGCT GTAACTATAAC TAGAGTGTGC CCAGAGGCAG AGGAATGCAG | 86400 |
| ACCCTCCAAA TCATAGCGTG GGAAGTGGGT ACTGAATACT CCCAAGGCTG CTTCTTGTG | 86460 |
| CCCTATGGTC TCCTCTGGTG CTTCCCATTG GCTGAACCAA GCCAGAGGGC GGAAAGCCTG | 86520 |
| GTTAATCTGT CCATGTCAGC CTTCCTGGC ACAGAGCAAG ACAGGGAAAA GTGAGGGATT | 86580 |
| ATTTGGAAGA ACAAACAGAG AGCATCCAGC ACAGGAAGTG TTTCTGAATA CTTGAATTCC | 86640 |
| TTAATTGTCA CAGACCAAAT GATCAACATT TAACTCAGTA GCACAGTGGT TTCCTTAACT | 86700 |
| CTCTTGTAG AACATCCTAT TACCATTTT TATTTTAAA ACTGCATACT GTTCCAGTAT | 86760 |
| CTCACTTAG TTATCAGATC TTTTCTGTC TTGTTGATT CTAGTCTGAT ATTTTCCAT | 86820 |
| GTTATATTGG TCCTCCAGTG TATTATTATC TCATACTAAT GCTTATGGAA CATTATCTGA | 86880 |
| GGGGAAAGAG AAGAGCTTAC AATTAAAAGT CATGGGACTA GGCATGTGTC ATGAGACCTG | 86940 |
| GGTCTTCAA TAACAAGCTA AGACATTAGC TGAGTCATTT TCCCTCTCTG ATTCTCAATG | 87000 |
| TTGGTGGTTA TTCAGTAGAG AAGGGAAAAG GTATCTTCT GCTCAACTGT CTCATGATTC | 87060 |
| CTGGAAGTCC TGCATGGGAG AAGAACTTTG GACAGGATGG TAACCATATT AACAGGTTAG | 87120 |
| TTCTGTACCT TGGCATCCTT GAATAATTAA GACGAAGATG ATGTTGATGA TATCATTATT | 87180 |
| ACTACATGTT GTTAGAAGAG CTGAAGCAGG ACTGGCTTGT CTGTCATAAT GTAAAAGAGT | 87240 |
| CTTGGAAAGAT GTCCGGGTC CAGGGTCCAA AACCCCTCGT GGCCTTGGA ACACCAAGCT | 87300 |
| CTGTGCCAAA TGGTGGAGG CTGCCCTGCC GCACCAAAA TCTAAGCCTA GGGCATAAAA | 87360 |
| CCCCTTGTGG CTTGGATGGA ACCCAGGGCT CAGGGCATAA AACCCCTCAT AGCCTCTGGA | 87420 |
| AAGTGCACAG ACTTGTGGT TCCTTGCTTT TCACTCATAA ACGTGTCTC TACTATCTCA | 87480 |
| AGCAGCAGAG TATATTCTAC ATGTGTCAA GAAAATGCTA AACTGTCACA GCTACGCTTA | 87540 |
| ATGCACCACT ACCTTTCTAC CCCATGTCC TCATGCCCTC ACCTGTTAC CCTCACGTCC | 87600 |
| TCACCACCTG CTTCTTGTT TGATCACCAA TAAATAGTGT GGGCTCCAG AGCTTAGGGC | 87660 |
| CTTTGCAGCC TCCAATCTAG TGCTGGCACC CTGGACCCAC TTTATGCACT CTTAACTTGT | 87720 |
| CTTTTCTCAT TCCTTGACC CCGCCGGACT TTGTAGCCCC CACGGCCTGG TGTTGGCCT | 87780 |
| GATCACCCCA ACAACTACCA CTTATTAGTG GTTACCATGT ACCAGGAAAT TTTACCAAGC | 87840 |
| ATTAAGCAA CATAAGCTTA TTCAATCTA CCCACCATTG TCTGCAACAA ATACGGTAAT | 87900 |
| TTCCACTTTA TAGTTAACAA ACTGAGGCTC AGAAAGTTAA ATGATTTGCC TAAGCTCACC | 87960 |
| CAGTTTATAA GAAACAATAG TTGGGTTTGA ACACAGGCTG GTTTTATTGA AAATAACTTG | 88020 |
| TGGCTGGGCA TGGTGGCTCA CACCTGTGTA ATCCAGCACT TTGGGAGGCC GAGGTGGGTG | 88080 |
| GAACACTTCA GGTCAAGGAGT TTGAGACCAAG CCTGGCCAAC ATGGCGAAC CCCATCTCTA | 88140 |
| CAGAAAATTT AAAAATTA GCCACTTGTG GTGGTGCAC CCTGTAGTCG CAGTTACTCC | 88200 |

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|--------------|-------------|-------------|------------|--------------|-------------|-------|
| GGAGGGCTGAG | GCAGGGAGAAT | TGCCTGAATC | CAGGAGGTGG | AGGTTGCAGT | GAGTTGAGAT | 88260 |
| AGTGCCAGTG | CACTCCAGCC | TGGGTGACAG | CAACACTCCA | TCTAAAATA | AAATAAAAATA | 88320 |
| AAATAACCTG | TGTTCTTCAC | AGCAACAAAA | TTATTTTGT | TTGTTTGTT | TTGTTTGCA | 88380 |
| GTTAGTGTGA | CTCTGGATCC | AGATACAGCT | CATCACGAAC | TAATTCTCTC | TGAGGATCGG | 88440 |
| AGACAAGTGA | CTCGTGGATA | CACCCAGGAG | AATCAGGACA | CATCTTCAG | GAGATTTACT | 88500 |
| GCCTTCCCCT | GTGTCTTGGG | TTGTGAAGGC | TTCACCTCAG | GAAGACGTTA | CTTTGAAGTG | 88560 |
| GATGTTGGCG | AAGGAACCGG | ATGGGATTAA | GGAGTTGTA | TGGAAAATGT | GCAGAGGGC | 88620 |
| ACTGGCATGA | AGCAAGAGCC | TCAGTCTGGA | TTCTGGACCC | TCAGGCTGTG | CAAAAAGAAA | 88680 |
| GGCTATGTAG | CACTTACTTC | TCCCCCAACT | TCCCTTCATC | TGCATGAGCA | GCCCCTGCTT | 88740 |
| GTGGGAATT | TTCTGGACTA | TGAGGCCGG | GTTGTATCCT | TTTATAACGG | GAATACTGGC | 88800 |
| TGCCACATCT | TTACTTTCCC | GAAGGCTTCC | TTCTCTGATA | CTCTCCGGCC | CTATTTCCAG | 88860 |
| GT TTATCAAT | ATTCTCCTT | GT TTCTGCCT | CCCCCAGGTG | ACTAAGGAAA | AGAGCAGAAG | 88920 |
| CTCCTTGGTT | TAACCAGCAC | AGAGAAAATA | ATATAAATCC | CATAAGGGCA | GACGTTGGT | 88980 |
| CTGTTTCTT | CGCTGTCATT | TCCTTAGTAG | TTAGACTAGT | GCTGAGATTT | TAGTGGATAT | 89040 |
| ATAATTGATT | TATGTTGAAT | ATATGGACTT | AGCAACTAAA | AA TACCAACAG | ATGTTAACCC | 89100 |
| TGGACTGGGG | CAAAGCAAGA | TAATAGTGAT | GATCGTATGT | TGCTGTCTCC | ATCCGTCTTT | 89160 |
| AATGGGTCA | GGCTTTGATT | TCCAAGGGTC | TTCAGGTGAT | GAGTAGGGGT | ACCCACAAGT | 89220 |
| CAGAAGGTCT | GCGTTCTCCT | AGTTTGTTC | CTGCCATTG | AACTCATGTA | GGGAATGAAA | 89280 |
| GAAAGCTGCA | ATTATCCGCC | AACTGCATT | AAAACAAAAC | AAAACAGAAA | AATCAAATA | 89340 |
| ACATTGACTC | TTCCAACCAC | TGACATGTTG | TTTAATAATC | TAAGCGGCAG | TCCTGGAGGC | 89400 |
| TACCAGACTT | ACTGAGTTCT | ACCTGAGAAA | CAGCCAAGCA | AAGTGTGAGA | GAAGGGTTAA | 89460 |
| GA CTTGGCTTA | CAATGAGATG | CTTCAAATGA | AAAGGGATT | ATGAGTAAAA | TTGAACTTTG | 89520 |
| ATGGGGGATT | CAGTTCTGGA | AAAGAATTG | GTATTTCCA | GTCTGCTAGG | ACCAATTACC | 89580 |
| TTGAAATATT | TTAAAATCTC | AGTAAATAGT | TATTGCTGAA | ATGGCTGTTG | GCAGTTCTTA | 89640 |
| TTATGATTCA | GAGAAGAGCA | AATAGACCTT | AACTTCATTT | TGAAAAAGAC | CAAATTACCA | 89700 |
| TACCCGAGTG | AGTAATGACA | GGACTACAAC | TAAAACATAA | ACAACATTAA | TGATGACCAT | 89760 |
| AAAAAGTCAC | AAAATTGCTA | AATGTTATAA | TTTAGAGTTG | ACATAAAAAT | TGATGGCCAG | 89820 |
| GCATGGTGGC | TCACGCCCTGT | AATCCCAGAA | CTATGTGAGG | CTGAGGCAGG | TGGATCACTT | 89880 |
| GAGGTCA | GAGGTCAGGA | GTTCAACACC | AGCCTGGCCA | ACATGGTCAA | ACCCTGTCTC | 89940 |
| ACAAAAATT | GCCGGGCATG | GTGGTAGGGG | CCTGTAACCC | AGCTACTCGT | GAGGCCAAGG | 90000 |
| CAGGAGAATT | GCTTGAGCCT | GCAGCAGCTG | CAGTAAGCCA | AGATCATGCT | GTGCCTCAAG | 90060 |

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|-------------|------------|------------|------------|------------|-------------|------------|-------|
| GAAAAA | ATTAATGTTT | ACTGATATTT | GTTGAAGTCC | TACAACATCA | CCTCTGAGAA | 90120 | |
| TAGGAGAA | AT | GAAGCAACAG | TTGTGTCTAG | ATGTCAGAGG | CATGGCTGGG | CCTCCATCTC | 90180 |
| TGCCTAAGGG | AGATATAAAA | GAGTTCAAAC | TATTGCCAT | GTTCCCCAGG | GTCAGAAGTT | 90240 | |
| CTAATTATGA | TGATAGAGGC | TGGGTTGTAA | GTAGTAAGTG | AAGGGTAGCA | GAATATGCCA | 90300 | |
| TCTTTGGCAT | AAGAAGTATT | TTGAGTTGAA | GACAATTGAG | AAAAAAAATA | GATTAAAAC | 90360 | |
| AAACAAACAC | CTCTGCCCTC | TCCCTATTG | CCTAAAAGCA | GGATATGAAA | TTGTGAAGGT | 90420 | |
| GTCTTCTTAC | TCGGGGAAGA | ACAAAAGTTA | GTCACCAGAG | ACTTTAGACT | CTTATCAGCC | 90480 | |
| TGGACATAGC | ACCAGAGAAG | TCTTTTTTT | TAAAAAAA | AAAAAAA | GGGAAAGAAA | 90540 | |
| AAGTTGCCTT | CCCACAATTT | ACTGCACTAG | AAACTCAAAG | TCCTTTCGT | CTTCCTTGTC | 90600 | |
| ACTTAAAAAA | TGTATTCTTT | TCTTAAAATG | CTATATAAGC | CCAAGTTCTA | AATCCTCTTT | 90660 | |
| TGAGTATTCA | TCTCAGTACT | CCCCTGTGTT | TGTACAATGC | ACATGCTTG | TTTCTGTCTT | 90720 | |
| GTCAATCTGT | CTTTGTTAG | TCTACTTGAT | AGGGCCACAG | ATGGAGAAC | TAAGATGAAT | 90780 | |
| AGAAAAAAA | GATTTTCTC | CCCAACAGAA | GGATTATCGC | CAGTTGCACT | TGTTCTATAT | 90840 | |
| ACCCGTAGTC | TCGGTATGCT | GACCCAGACT | TGGGTAATAG | GACCCAGTGG | GTAACCGAGG | 90900 | |
| AACCCCACCT | TTGTGCAGGA | TCAGTGAAGA | TGTAATCTGG | ATATTCAAA | GCTCTCTCT | 90960 | |
| ACCTCTTGGC | ATCCCACAGT | CCTGTGTTAA | TGTAAGTGTG | GTCTTCQCCA | GAAAGGGAG | 91020 | |
| GCCTCCCTAA | CATTGTTAAA | GCCTAGCATA | TGCTGCTTAG | AGGAAATTCT | ATATCCCTAA | 91080 | |
| GCACCTAGAT | TGCTGAATAA | GAAAGAATGA | TAATAAAATA | AACAATTAAA | AAAAAGTTT | 91140 | |
| AAAAAAATGAA | TAAAATAAAC | CTGTGGAAAC | TATAAGGAAG | GCCAGAAGAA | ATATAAAATT | 91200 | |
| GGAGATTAAT | TGGGGTGCAG | GAAAGTTATG | GAAAGAATAT | AAGTCCTGCT | AGATAAATCA | 91260 | |
| TTAGCTATTT | TAATAAAGAA | TACAGAAGAA | AATAGGAACA | AAAGAATATA | TACTGGAATA | 91320 | |
| ATTTTGAGAG | TAATTGAAAG | AATTAGATGC | AAATAAATT | GAAAACCTTT | AAAAAGAAAC | 91380 | |
| CAATGGCCTA | ACTGACCAA | GAAGGAAAGA | AAATCTAAAC | AGACTGATAA | ATACAAAATG | 91440 | |
| AAATTCAAGAC | ACTTACAGAG | CAGCCAGGCA | TGGTGGCTCA | CACCTGTAAT | CCTGTCAC | 91500 | |
| TGGGAGGCTG | AGATGGGAGG | ATCACTTGAG | GCTAGGAGTT | TGAGACTAGC | CTGGGCAAGC | 91560 | |
| TCCCATCTCT | AAAAGAAAAG | AAATTAGCTG | GGCATGGTGG | CATGTGCCTT | AGTTTCAGTA | 91620 | |
| CTCAGGAGGC | TGAGACGAGG | ATTGCTTGAG | CCTAGGAGGG | CAAGGCTGCA | GTGAGGCCATG | 91680 | |
| GTCATGCCAC | TGAATTCCAG | CCTAAGTGAC | AGAGCAAGAC | CTTGTCTCAA | AAAAAAA | 91740 | |
| AAAAAAAGTT | ACAGAGCTCC | AACTAAATAA | TGTGGGAAC | AAAAGAAAAA | AGAAGATGAT | 91800 | |
| TTTATGGCTG | ATTTTTTTTT | TAAGGAAAAG | CAATTGATGT | ACCCCTGAAG | ATTAGATTAA | 91860 | |
| GTTCTATAAA | ATAGCCAAA | ATGACAGTGG | CTGAAACAAG | TTTATTATC | TCCCATTAA | 91920 | |

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| AGCAAGTCTA GATGTGGAAG TCTGGGAAGC CCAGAAAATC CAGGTCTTGT TTGTGTATGG | 91980 |
| AAACTCCAGA AAATCACAGA TTCCTTCCAG CCACCCCTCA ATTACCCCTG GGATCCAAGA | 92040 |
| GAGCCACTAA AGTTCCAGCC ATCATACTCA CAACCCAAGT TGTAGGATGG AAAAAAGGAC | 92100 |
| ACAAAAGTAG GGTGAAGAGC ATGTGTGCAA CAGCTCTTT TTACTCTAGT GTCCTAAAAC | 92160 |
| CTATCATAAA ACCTTTGGCT TGCCTTGCAT TAGCCAGAAT TTAGTACATG GCCACACTTA | 92220 |
| AGAAGTCAGA AAGATTAGCT TTTTTCCAG GGTAGTTGGC TGAAAATCAG GAGTTCTCAT | 92280 |
| ATTAAAAAAC AGAGAAGGGA CATCGAATAG ATGACCAACA ATCTCCTTCA CACTCATACT | 92340 |
| ATTTAAACTG TCCTAGTCAA TGACCAAAAA AGAAAAGCCT ACAAAACTCAT TGATATAAAA | 92400 |
| GCTTAACAAA GGTACTCCCC GCCCCCCGCC CGCCACACAC CATCCCCAAA AGGAAATTTC | 92460 |
| TAATCCAATT AACAGTCTTA GGTTGGGCTG CTGAAACAAA ATACCACAGC CTGAGTGACT | 92520 |
| TAAACAAACGA CAATTTATCT CTCACTGTT TGAGGTCTGA GTTGATTCTT TGTGAAGGCC | 92580 |
| CTTTCCCTAGC TTGCAGATGG CTACCTTCTT GCTATGTCTT CACATGGCAA AGAGAGAGCT | 92640 |
| AGCTTTCTGG TCTTTTCTTA TAAGGGACCA GTCCCCATCAT GCCCATCATG AAGACTCGAT | 92700 |
| CTGCTAGGAT CTCAACTAAA CCTAACTATC ACCCAAAGAG CCCACCTCCA AAGACCATCA | 92760 |
| CATTGAATGT GAGAGTTCT ACATATGCAT TGTGGGAAAC-ACAAACATTT ACTTCAACTG | 92820 |
| TAACTATTGA AGCAAAATG TCCCCCCCACC ATAGACATCC AGCACCACAG TAGTACATTT | 92880 |
| ATTACAATTG AACTTACATT GACACGTCA TATCAACGAA AGTCTGTAAT TTACATTAGG | 92940 |
| GTTCATTCTT GGTGTTGTGC TTTCTATGGG TTTTGACAAA TGTATAATGT CATGTATTCA | 93000 |
| CCATTATAAGT ATCACAGAAG TTTCACTGCC CTAAAAATCC TGTGTTCTGC CTTTTCAACA | 93060 |
| CTTCCTGTCA CCCAATTCT ATCAACTAAT CTTTGACTG TGTCCATAGT TACTGTCTTT | 93120 |
| TCTAGAGTGT CATACTGTTG TGAAGCAGGA AGCAGGAGTG AACTCCGGAG GCAGGGACTT | 93180 |
| TACTCCGGAC CAGATTGAAG ACTAGCCGAA ACAGGGACGA GGTTAAAGCA CCTCTCCATA | 93240 |
| AGACACGCC ACCAGGCCA TGTCAGTTT TCGTTGCCAT GGCAACAACA GGACATTATC | 93300 |
| GACTTCTTTC CTCTGTACCT ACTCCGAAGT TACCACTCTT TTTCTAGAAA TTTCTGCATA | 93360 |
| ATCCCCCTTA ACATGCACCTT AACTAAAAGC AGGTATATTA CTGCAGAACT GCCCCTGAGC | 93420 |
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| TATGCAGTCT TTTCAGGTTG GCTTTTTAGT AACATACATT TAAGTTCTT TCATGTGTTT | 93660 |
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| TTTTTTTGA GACAGAGGAG TCTTGCTCTG TTGCCAGGC TGAAGTGCAG TGGCACTGGC | 93780 |

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| CTGGTCTCAA | ACTCCTGGCC | TCAAGCAATC | CACCCACTTC | GGCCTCCAA | AGTGAATGCA | 93960 |
| TTTCTTTTA | ACTCTAAATA | ACATTCCATT | ATTCAGAAGT | ACCACAGTTA | TCCACTTACC | 94020 |
| TAATGAAAGA | CATCTTGT | CCAAGTTTG | GATAAATTAT | GAATAAAGCT | GCTATAAACAA | 94080 |
| TCTATGTGCA | GGTTTTGTG | TGGAGATAAG | TTTCAATT | CTTGGATAAA | ATACTAAGGA | 94140 |
| GTGTGATTGG | TGAATCTTAT | GGTAAAAGTA | TGGTTACTTT | TGTAAGAAC | CACCAAAC | 94200 |
| TCTTCCAAAG | TGATTGCACA | TTTGCAATT | TCACCAGTAA | TGAACAAGTT | ACTATTGCTA | 94260 |
| CATATCTTG | CAACCTTGG | TGCTGACAGT | GTTCTAAATT | TTGGTCATT | TACTAGGTAT | 94320 |
| GCAGTGGTAT | CTACTTGT | TAATTGCA | TTCCCTAATG | ACATGATGTC | AAGCATCTT | 94380 |
| TCATATGCAT | ACTTGCA | GTGTATCTC | TTGGTGAAC | AGATGTCAG | GTCATTGCC | 94440 |
| TGCTTTAAAT | CAGGTTAT | TCTTACTGTT | GAGTTTAAG | TATTCTTGT | ATATTCTAA | 94500 |
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| TTTGAATTAA | TTGATCTTG | CTATTGTTAG | CAAGGTCTG | TATTCTTTT | TTTTTTTTT | 94740 |
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| TATTTGATT | TTATTCAGG | CAACTAATAT | CTATTCA | TTGCACTGTT | GGAAGAAAAT | 95160 |
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| GAGACATACA | CCTATGTCAT | TTCATTTCT | ATTTTGAA | GAGGACTCCT | TAAATTGGG | 199800 |

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| TTCCATCTGA TTGTGATGTG AGTTGCACAG CTATGAAGGC TGTACACTGC ACGAATGGAA | 200040 |
| GAGGCACCTG TCCCAGAAAA AGCATCATGG CTATCTGTGG GTAGTATGAT GGGTGTFFFF | 200100 |
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| TGAAGGTGTC ATACAGATTT GCAAAGTTA ATGGTGCCTT CATTGGGAT GCTACTCTAG | 200220 |
| TATTCCAGAC CTGAAGAACATC ACAATAATTT TCTACCTGGT CTCTCCTGT TCTGATAATG | 200280 |
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| GGCTTCACAC ACGGTGTCCT CCCTAGGCCA GTGCCCTCTGG AGTCAGAACT CTGGTGGTAT | 201180 |
| TTCCCTCAAT GAAGTGGAGT AAGCTCTCTC ATTTTGAGAT GGTATAATGG AAGCCACCAA | 201240 |
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 CACAAGAATT CAGGTACGGT GGCTCATGCC TGTAAATCCTA GCATTTGGG AGGCTGAGGC 240540
 GGGTGGATCA CTTGAGGTCA GGGGTTTGAG ACCCGCCTGG CCAACATGGT TAAAACCTAT 240600
 CTCTACTAAA AATACAACGA TTAGCCATGC ATGGTGGCAC ATGCCTGTAA TCCCAGCTAC 240660
 TCGGTAGCCT GAGGCAGGAG AATAGCTTGA ACCCAAGAGG CAGAGGTTAC AGTGAGCCGA 240720

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| GATCGCACCA | CTCCAGCCTG | GGCAACAGAG | TGAGACTCCA | TCTCAAAACA | AAACAAAAAA | 240780 |
| ACTACTAAA | ACTGTAATAA | GAAAAAAAAA | AACCTAATT | TACATGTAAA | ACATTTAAAT | 240840 |
| AACTAAAATA | AGAATACTGT | TGACATAGTG | AGACATCCAT | TTATACTATG | GAATGTTATG | 240900 |
| CAGCTACCTG | AAACAATAAT | CCGGTGAAAC | AAAATCACAC | ACACAACGT | TGAGAGTAAA | 240960 |
| TAGAGAACCG | TATGGAAGAA | AACATACCCAC | AGTAATTATC | TCAGATAGCT | GAAACTAAGT | 241020 |
| TGGTGCAAAA | GTAATTGTGG | TTCTTACCAT | TACTTCACT | GGCAAAAGCT | GCAATTACTT | 241080 |
| TTGTACCAAC | CTAATAGAAT | GGGGTGAGGA | GAGGTAAACC | TTTATAAACA | TCTCTGTGTG | 241140 |
| AACTGTTAAA | ATGAGCAAGT | ATATTTTTT | TAAAGTATAA | AGAGAGAAAA | AAGTAAACTT | 241200 |
| TCTCCATTTC | CCACCTCAAA | TTATGTTCTG | TCACTCATCC | TGTTTAGATT | CTTCAAATG | 241260 |
| CAGTTGAAG | TTTTATTTAT | GAGATTCCCT | GTTGTTGCC | TCTTCCATT | AAACCTAGCT | 241320 |
| CCACAAAGTA | GGGACCTGAT | GTATTCAATC | ACTGTTATAT | CCCAGCATCT | AGCAGAGGGC | 241380 |
| CTGACACTTA | GTGGAACGC | AAGTATCTGG | TATATAAACC | AGAGAATAGA | TATTTTTTA | 241440 |
| GCCCAGAAAG | CTGTTCACT | GCACAGAGTG | TAATTATCTG | AATTTCTATA | AAAATGTCTA | 241500 |
| TCTATAAAC | ATTGTCAATA | CATTACCTAC | TCACCTTACC | CAGCTACCAAG | GAACACTATG | 241560 |
| AAGTTTGAA | TTACACCCCA | TTTGTTCCTC | ACACTCTTAC | CATTTCCCA | GTTCTGCAC | 241620 |
| TGACCTCTCC | AGACATCATG | TGTACTGATA | ATTCTAAGTT | GTCTAGATTG | TTAATTCTTT | 241680 |
| TAAGGGCCTG | TTCTCTGCTA | GCTGGCATCA | TGCATAAAAT | AATTCTCTTT | AATATGCTCT | 241740 |
| GGGTCTAGGG | TTAATAGATG | TTTGCTAAA | ATCATGGAAA | GAAAATGGTC | ACACAGCTGG | 241800 |
| TATGTGTGAT | CAAATTTGTG | CTGTTTCATC | CACTTAATGT | TTACTTTGTG | GTAATGGAAC | 241860 |
| CTCCCAGCTT | TTATTTCCCT | TCCTTCCTTC | CTTCCTTCCT | TCCTTCCTTC | CTTCCTTCCT | 241920 |
| TCCTCCCTCC | CTCCCTCCCT | CCCTCCCTTC | CTTTCTTTCT | TCACAGAGTC | TAGCTCTGTT | 241980 |
| GCCCAGGCTG | GAATGCAGTG | GTGCGATCTC | AGCTCACTGC | AACCTCTGCC | TCCCGGGTTC | 242040 |
| AAGCGATTCT | CCTGCCTCAG | CCTCCCAAGT | ATCTAGGATT | ACAGGTGCAT | GCTGCCACAC | 242100 |
| CTGGCTAGTT | TTTGTATTTT | TAGTAAAGAT | GGAGTTTCAG | ATGTTGGCCA | GGCTGGTCTC | 242160 |
| CAACACCAGG | CCTCAAGTGA | TCCGCCTGCC | TTGGCCTCCC | AAATTGCTGG | GATTAACAGG | 242220 |
| CCTCAGCCAC | TGTGCCGAC | CCCAGCTTT | ATATTCTAAT | GCTGAGATTA | TTCAGTTAAC | 242280 |
| ACTCTTACCT | GCTAGGATAA | GTGTTGGGA | GAATTTACC | TTACCTTGTA | CCCTTTACCT | 242340 |
| TCACATCTAC | CTGTACCTG | GCCCTTCACA | TCCTTTCCAT | ATAATATATC | TTCAGTAAAT | 242400 |
| ACAGGGAAAA | AAACCCAGAA | TGATTATGTT | GACAGCAAA | CATGTTGTG | CAGAAACGGA | 242460 |
| GTAGTCACTA | TCTAAGCCAC | AGAGACTTAG | GAGTGTATTG | CTGAGTTATG | TATCATTAA | 242520 |
| ACCATCACTG | GATCTAAAT | CCCAGTTGCT | AAATTGAAGG | GAGATACATG | ACTCTTTTA | 242580 |

GGGCTTGCT CTCTGATACA GTAGCCATTA GCCACATGTG ATATTTAAA TTTAAATAAT 242640
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 TTGGATACAC AGACATAGAA CATGTCTATC ATCACAGAAA ATTCTATTGC ATTGCACTGG 242760
 GATAGGTACT TTTTGTGCCG TTGGGCTGAT AAGTTCAAGT GCACTTAAC AGCTTCCTCC 242820
 AAGTGGAATC AGAGGATAAA TTTACCATAC AAAATACAGG ATACCCAATT ATATTTGAAT 242880
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 AGGGAGTTAT TTGAGGAATT GAGAAGGGCT GTGGTACCTG TAAAGAACTA ACTCATTATG 243180
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 TTTTCTGCAC TTGCCCTTT CATAACAATC TATCTGGAG AACTTCCCT ATGAGAACAT 243780
 ACAGAGCTTC CTGTACACAG TTGCATGTAC TGCATTATGC AAATGCATTA TATTTATGT 243840
 AACCTGTCCA CTGTTGGTAG GCACCTTGAGT TGTTTAGTC TTTGCTATC AAACAGTTCT 243900
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 TGGTAAGTGA ACTGAAAATT CCAGTCACTC TTGGGCTAGA CTCAACGTT TCAAAAACTA 244020
 TGTGGCCATC ACCAAATTAG TTATTTGAA CCTTAATTTC TTCACCTCTA AAATGGAGGT 244080
 AATACTTACC TTAAGTGGCT ATGAGAATGA AGATCATGTG TATGAATTGT TGGTGTCTA 244140
 AAGAACAGCA CAAATAAAAT TATTTCAAA TTTAATTTC ATTGAACATAT GTGTAATTTC 244200
 TTAATTTGA AATAATTTC TTTGTAATGT GCATAATCTT ATTTAATGTA TAATGTATAC 244260
 ATTGTAATAG AAACAGATTT CCCAAATTCC AGCCTGGCAT GAGGTAATAA AAGGTAATGC 244320
 AAAGGGAGAG GAAAGCATGT GTCATTAATT TTCTGCCTAG GACACCTCCC TGGTTAAATT 244380
 GCCATTCCT TTCTTCCTTG CATAATGATT AGGAAACACA TCCTCCTGAC CTGCCTGCC 244440

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| TCTTTGCCT ACTTTTCAT CTGCAGTCAA GGTCTGGTT TAAGACTGAC TGTACTTTT | 244500 |
| ACAAATCTGT GTGTATTGGT GGCTAAGGGC CTGTATGGTC CACTGCTGTA TTCCCAGGTC | 244560 |
| CCAGCATGGT GCCTGACGCT GCCTGGAAA TAGTAGTCAC CCGAGAAATG GCTGATGAAT | 244620 |
| TCATGAGGCC TACTCTGTAT GGAAATTCA ATTCTGGCCC CGAATTTCAGA GGAGCTGGCA | 244680 |
| AGAGAGGCCAC CTTAATATCA TAGGCTGAGT TGGAAGAAGG GAACACCCAA TTTATTCTTA | 244740 |
| AGAAGTACTT TGCCCAGGTA CTGTGGCTTA GGCCAGTAAT CCTAGCATTG GGGGAAGCCA | 244800 |
| AGTTGGGCAG ATGGCTTGAA CCCAGGATT CGAGATCAGC CTGGACAACA TGGAGAAACC | 244860 |
| CCATCTCTAC AAAATATGTA AAATTTAATCTG GCTTGGTGGG CCTGCACCTTC TGGTCCCAGC | 244920 |
| TACTCCAGGG CTAGGGTGGG AGGATTGTTT GATCCCTGGA GGTCAAGGCT GCAGTGAGCC | 244980 |
| ATGATCACAG CAATGCGCTC CAGCTCTGGG CAACAGAGCG AGACCCCTGTC TCAAAAAAAA | 245040 |
| CAAAAATGCC TATACAATAA ATCTATAAAA AGTGGGTTTT GTGTGTCTAT ACACACACAC | 245100 |
| ACACACACAC ACCTGCATAG ACACTCAGGT GTTCTGGAAA GACACAGGAA TCTGAAGCCA | 245160 |
| AAATACTTGT GATTTTTTT CAGCTCTGCC ACTCACCAAA TGTCTGATGG GATTAGTTAC | 245220 |
| CTGCCATCTC AGAATTCTC TTCTGTAAAA TAAGGTAATA GTACCTCCCA GAGTTATGAA | 245280 |
| AAACTATCAA ATGAGATGGC AGATGAGAAA ACACTATATT CCTTGTAAAA CCTGACAAAT | 245340 |
| ATGTGCAAGA TTATATAAAG ACTGTCTTCT GTCCATTTC AAATGTGGAA AAGTGAAAGC | 245400 |
| AGGACAGGAT GTTGGGATT CTGTCAGAGA TTTGCTGGCT TCCACCTGCA GAAATTGAAG | 245460 |
| TAATTGGGGT TCTTACACCT AAGTACTAAC TGAGTCTGGT TGCAGTTGC CCCCATGGCT | 245520 |
| ACATGAAGCT TTTAGAAGAG TCAGCATGGT AGACATGGAA TGTTGAATGG TGGTGGAGTG | 245580 |
| TACCCACACA CCTCCCACCA AGTCAGCTCC AGGTTCAGAA GCAGCAGCCC CAGTGGAAAGG | 245640 |
| CATGCGTGT TGTAACTCAG CTGAGCCACC TTTCAAGAAG CAGAAGCTTT CCAAACAGGG | 245700 |
| ATGCCCTCTG CTTTGGTTT AACTTGACTT CCTACCTTCA GTGAGGACAT GGAGAATTCA | 245760 |
| TCTAGACTGG GTACCTGAGC AAACCTGGCA GAGCAAAGAG AAATGTGGAA GGCCCTAGGT | 245820 |
| AGACAGGCC TGTGGAAGGA AAGAATGAAA GAGGACAGAA AGAAACTCCC ATTTTCTTTA | 245880 |
| GCACAGTCCC TTCAGATTAA GGATGAAGAG GCTGGGGTTC TGAATTGGTT GGCCTTAGGT | 245940 |
| AATGGTCACA AAAACAAGTC AATGGCTTTT CCACATCCGT ACATTGAGAT ATATTCTGC | 246000 |
| CCTTGGTATT CATTTCCTCT GACCTCCAAT TAAAGATCTA TGCGTCATTG TAAAGCCTTC | 246060 |
| CTTCCTTCTC ACTCTGTGGT CAGCGTAACA TTGGTGGTTT GAAACTGGCC ATAATAGCAG | 246120 |
| CATTTACATC ATGGGAACTA GCATATGTTA CATCAGGGTT TTTTGTTTT GTTCTGGAG | 246180 |
| AGCCAGTAAA CATACTCGT CACACCCTT AAATATTCTC TGCTTAAATA TTCTCTGCTC | 246240 |

(2) INFORMATION FOR SEQ ID NO:21:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..246240
- (D) OTHER INFORMATION: /note= "HLA-H.CONTIG"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

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|---------------------------------------------------------------------|------|
| TTTGTAAGTA TTCTATTTA TTTATATGTG TTTGTGTTTC TGAGTATGTC CTGAGTTGCA | 60 |
| CGATAATACT ATATTTCTTA TTGGGTAACA TTGTCAGAAA AGTTTCTAAA AACTTTCTCT | 120 |
| GCTGCACCTTA TTTTATACAT TTTATTTATG TTAATAATCT CACATTTAAC ACACATTATGA | 180 |
| TTTATTCTCA ACAGAAAAAG GTGGTATTTC TTTCATTTAG TCTTTTAAAA AGCTCACATT | 240 |
| ATCAAATGAT TGCTCAATCA TTTAATCTCT TTGCTTCTCT TATATGCATT GATTTAATAA | 300 |
| ATATGTATAC TAGTTCTCC ATCGATTCTT TAGATTGAA ACTTATTTC CTTTTATTCT | 360 |
| TACAAAAC TG ACTTGTCTAT AGGCCCACTT CTACTTCCTT TATTCTATCA TCTCCTCAA | 420 |
| CTTATTCTGT GGTCAAAGAA TGGAGAAATA ATATTAATAA TATGTTTTC TCATCAATGA | 480 |
| CTTCCACCTG TTCTCTGAGA AATTCACTT CAAGAACTTT AGTTGATAT GACTGCAAAG | 540 |
| ATAATACACA GTCTAAATCA TAAAATGTC TCAAAGGTTT TTTTTTATT TGTTTCTTTG | 600 |
| AAATATCCAT GAACAGGCAT GTTTCTCCCC CTGTAGTGA ATTGTGTGA ATTCTGGCA | 660 |
| TGCACCTAAC AGGATGTCTT AAAATACCAA TATTTAATTG ATTCTAAGTC ATGTATTGTA | 720 |
| TCACATTTT GCCCATGGAT TGTGAAATC CATGGACAAA ACTGATAGCA TTTTAGAACT | 780 |
| TCCTTTGTCT AGTGGCAGTC TTGATATATT CACACTATCT ATTGACAAAA AATCTAAAGC | 840 |
| ACCAGGCTCA AAGCTTGTAG AGTAGGTGTC AGTGATTTGG AGGACATCTC TAGGGCAATA | 900 |
| GTAGAGGCAT TTTAACCCCC TAACAACTAA ATGATCATCA GAAGTGAGTG ATATCCTCAC | 960 |
| TCATGACCCC AACTGCTCTA ATTCTATTG TTTCTTGCA GAAATGAGAG CAGGTGGGGT | 1020 |
| CATGGGTGAG GAATGAGGTG TTGAAAGTGA ATGGGGTGT GAAAGCAAGG TGTTAGCAG | 1080 |
| TGTTCTGAAA GCATACATT AAGTAGGCTA TCCGGGCACT GTCAATAGCT AAGTGTCAAG | 1140 |
| CTAAGTACTC TATTTTATTC TAAGAACTAT TTTTAGAAAT GCTGAATCAA CAAATCTCAG | 1200 |
| ATGGCACAGA GGTTGTCATT TTTGAATAAT ATGAATATCA GTAATTAG TTGGAAAAGA | 1260 |
| AGATTTCAA AGAGCCATCT AAGTTCCAA AATAAGTGT GCAAGTCATAT TAACTATTAT | 1320 |
| ATTTCTGCA CTGTTGATCT ACTGCCTGTG AATTGCTTAT CAAACCAACA ACCAACTGGA | 1380 |

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| ATACATAGAC TGCATGTCTT GTTCATTCTC TGCAATTCTCA AGTAATGGTT TAACAAACTC | 1440 |
| ATGAGCTTAC TCTTTAATCT GAACCAGCT TAACCTCAAT TATGTTGATT TAGTCTAAGG | 1500 |
| ATGCAGAATT TATTTTATAG TTATGTAGGA ACTGGAATCC AAAATGTAAT ATGCCTCCAA | 1560 |
| GCTTTCTTT GTTGGCCTCT GAAGGAGCAT CACCTCTACA ACTTCAACGT TGTATGAAT | 1620 |
| ACCTCTGGGG AGGTGTTCAC CTCAGGACCC AAATTTGGAA AAAGGGAAGT GCCACTTTGG | 1680 |
| AGGAGTGCTC TGAGCAGCTG ATCCATTAAA TGTCGGATC ACATGCACGT GGAAGTGTCA | 1740 |
| TTGCAATATC TGCACTAACA GAAGCTCAGT GACTTGAGAA GTGAGTCTGG AATTCTAAGA | 1800 |
| AAAAGGCAAG GCATCTCTCT TGCCACTTGT TATTTTCCA GTCAAGCAAC TGTGATAAGA | 1860 |
| GGGCATGGAG AGCAGGAAGA AGTAAAAAAT CCCAGGAAAG TCTGGAGTGG AATCATTAAA | 1920 |
| CCAATTCTGC TCCCTCTCTA GGCCAACTTG GGCGTATTAT GAATAAGGAG GTCTCTTATA | 1980 |
| ATCCATCTAA CTCCACTCAG GAACAATTG GGGATCTGAG ACTGTGAAC CAGTGGCAA | 2040 |
| AAAAATATTT CTTGGCCTAT CATTATTCTC TGTAGGATGT TAAGGACAGG TTTCTGTATG | 2100 |
| TGGAGTCCTC AGTTTTGCC TTCTCTCCTT GAGATATTAA TATGCTATTT AGTAATTGAT | 2160 |
| GGCCACAGTT GATCGACCAC ATTTCTGGC AACTCTAATA ATCCTTGTAA TATTAATCAT | 2220 |
| TGGACCAATC TTGATTGTGT ATGACCATCA TCTTGTAGCT ACCACCTCTA TGTGGATGCT | 2280 |
| CTCCTCACCC TGCTTAAGTG CCAATGTCTG TGCTATGGC CTACCTGTCA CATGGATAAT | 2340 |
| CTCTTCACTC CAGTCAGGCT CCAACATTAA CACAGGGCTG TTCTCTTGTGCCCCTTGAA | 2400 |
| GACAGCTTCA TCACCCATT CAAGTTGCAG TACTCTCACT GGGCCTCCAC TGTGCCTCT | 2460 |
| CTCTCACTCT GCTTAGGTTT CTTCACTCCA CTCCAGGCAA CTGTCACTAA ACATCCTTTC | 2520 |
| CCCCATATAT AACACAGACA TCTACCTTGC TTGGCCAAAC CCACTGGATT TCAGACTCAC | 2580 |
| TCATTCAAGAG AGTAAGACAG AGAGGGGTTT ATTTTTATT TTATTTATT TTTTATTTTT | 2640 |
| TGAGACGTTG TCTCACCCCTG TCGCCCAGGC TGGAGTGCAG TGGTGCAGTC TTGGCTCACT | 2700 |
| GCAATCCCCA CGTCCCAGGT TCAAACGATT CTCCTGCCTC AGTCTCCAA GCAGCTGGGA | 2760 |
| TTACAGGTGC CTGCCACCAT GCCCAGCTAA TTTTGTTATT TTTAGTAGAG ACAGGGTTTC | 2820 |
| GCCGTGTTGG CCAGGCTGGT CTCGAACCTCC TGACCTCAAG TGATCTACCC GCCTCGGCCT | 2880 |
| CCCAAAGTGC TGGGATTACA GGTGTGAGCC ACTGCGCCA GCCGGGGTTC ATCCTTAATA | 2940 |
| CATACATTAG AGATATAGAT TCTGTTTTA TCTAAAAAGT CTTTATAAGG CCGGGCGCGG | 3000 |
| TGGCTCACGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CGGGCGGATC ACGAGGTCAG | 3060 |
| GAGATCGAGA CCATCCCGGC TAAAACGGTG AAACCCCGTC TCTACTAAAA ATACAAAAAA | 3120 |
| TTAGCCGGGC GTAGTGGCGG GCGCCTGTAG TCCCAGCTAC TTGGGAGGCT GAGGCAGGAG | 3180 |
| AATGGCGTGA ACCCGGGAGG CGGAGCTTGC AGTGAGCCGA GATCCCGCCA CTGCACTCCA | 3240 |

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| GCCTGGCGA CAGAGCAAGA CTCCGTCTCA AAAAAAAA AAAAAAAA AAAAAAAAGT | 3300 |
| CTTTATAAAA ATCTGATTGA ATGGTTGAAT GCTGTGCTAA AATCTGCATA ATATCTTACA | 3360 |
| ACACTTCTGT GAATCACGAG ACAGTTTGA ATGCTAAATG TCAGTTAACAA GATCTAAAGG | 3420 |
| GACCAACATC TGCTTCCCA AATTATATGA AAGAAGATCC TGATCCCTCA TCAGGTGAAA | 3480 |
| CTCACATCAG ACAACAGTGT CTGCATTTCT CCAAAACCCG CCTCAGCCCC ATGCCACTT | 3540 |
| TCCAGGGTTA TCCTGCCTAC CAAGCACTCT CTTTCCTCAG AAAAACTTGG GGGAAAATGT | 3600 |
| AGAATAATAA TTTTTGAAG TTCTGACCAA CTTCTTGAAT CACTCAGCAT GTTTTGACT | 3660 |
| GCAGGTACAG AAAACGCTGA CTCAACAAAT TTAAACACTA TATAAATTTC TTATCTCCCC | 3720 |
| AAACAGGACA TCAAAGGCAG AAAGGTTCCA GAGCAGGGTG ATCAGAGCTC TGGCTCCACT | 3780 |
| GCCCTCAGTC TTCTGCCTC TGCTCTCCTT CACAGCAGGC TTTACCCCCC ATGCTGGTCA | 3840 |
| CAGTTCAAG TGTCCATGCA GACACAAGTT AAAGGCAGGA AGAAACAGTG CGTTCTCTT | 3900 |
| GGAGATCAAG GAATGCCTT CCAGAAAATC CCCCCTTATG TCTCATTGCA CAAAACTTGG | 3960 |
| CCTAGTCTCA GGTGCTGCCT GAGCTAATCA GCTACAGAAG AAGGGACCAC ATGACTGGTG | 4020 |
| TGGACCAGTC AGAATTCAAC ACATGAAGCT AGTAATGTGG CTCACACTTC CCAGGGGGAT | 4080 |
| ATGGCCAGGT AGCAGACAGT GGATCGCTGA ACAGAATACT GATAGATTTC AGCACCAAGG | 4140 |
| TTAGAATGGC TACCACACCT AATCCCACCC TATCCCCGTT TCCTTCTTTA ATTTTTCCA | 4200 |
| TAGCACTTAT CAGTAGCTGA CAAACTGTAT ATGTTTTAC TTTTTTATTG TCTGTAGCTC | 4260 |
| CCAAGTAGAA TACAAACATC TGAAACTCAC TGTATCCATC CTGAGTAATG TTCTTTCAAG | 4320 |
| CTCAGTCACA ATCATTTTT GATAGCCTAT CCTATAAGCT TAACTTATAG TGTAAATCAG | 4380 |
| TATTAATACA TCTTAGTGGG AAAGAAGGAA AAAATAAACG ATCACACACA CACACACACA | 4440 |
| CACACACACA CACATACATT TACGTAACAG AGCAAGTGTG AAAATACCTA AAGGCTTTAT | 4500 |
| AGCTCCTTT GTCAATGGAT ACATGACAGC ATTTTGGCA TTCTTACTA CTCTTATTCT | 4560 |
| ATGCTCCATT TGTCTTCAGT CAGCACCTCA GCTGCCCTTA TGTTTTACTT GGTAAGGCAA | 4620 |
| ATTCTAAAT GAGCCTGGTA ATTAGTCATC CAGCTTATAG GAAGGTACTA TAGTTTTCA | 4680 |
| TTAACCTTTT CACTGGCTT GAGAGTAGTA AGGACTCCCA GAGAATTCCCT TGTGTTCCAA | 4740 |
| AAGTACTTCT CCTTGACATC TTGGTATAGG ATTAATAACT GTTTACCTTT GATAATCAGG | 4800 |
| AAGAATGACT CCAGCTAGTA CAGTTACGTG ATGCCTATAC ATTCCCTTTT TTCTGGAAA | 4860 |
| AATGTAATGT GAAATTAAGT GCAAAAACCA TGCTTGTGTT ATGTATGTAT CAAACACTTC | 4920 |
| TAGAGCTTTC CCAATACAGT TCTCTCTCA GCAAACAAGA GGACTATACC CTCATCCCCA | 4980 |
| CCCCTGCACT TAGGTGTAGC CAATGTGTTG TAACTTAAAG AGGAGAGGGC ACTGGATGAA | 5040 |
| GGGAAATCTG TCTAACAAAGC TTCTTATTT CACCTAGTGG AAAAAAGCCT TAATCTGCAG | 5100 |

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| TGGGGCAGTT | TTCAAGGACA | TAGACTGAAT | TGGCTCATGC | ATTTATGGAA | GATGAGGAGT | 5160 |
| CCCATGATCT | GTAATCTGCA | AGCTGGAGAC | CCAGGAAAGC | TGGTGGTATG | ATTCAGTCTG | 5220 |
| AATCTGAAGG | CCTGAGAACCC | AGAGGAACGT | ATGATGTAAA | TCCCAGTTCA | AGAGCAGGAG | 5280 |
| ACCAGATGAG | ATGTCCCAGC | TCAAGCAGTG | AGGCAGAAAAA | AAAGGCCAA | ATTCCCCCTT | 5340 |
| CCTCTGCCTT | TTCTTCTATT | CAGACCCCTGA | ATATCAGGTG | GCATAATGCC | ATCCACACTG | 5400 |
| GGAAAGACAG | TTTACTTTAC | TAGGATCACC | TATTCAAAGG | CTAATCTCAT | CCAGAAACAC | 5460 |
| GCTCACAAAC | ACAGCCAGAA | ATAATGTTA | ACCAGATAGC | TGGTTATCCC | CTGACTCAGT | 5520 |
| CAAGTTGACA | CAAAAAATGA | ACTATTTCAA | AGCTTACTGT | AATCAACAGT | TTTGTCAAAA | 5580 |
| AGATAGACAC | AAATCAGTGG | AATGAGATAA | ACAGTCTAGA | AATAAACCAA | CAAAAATATT | 5640 |
| GCCAACTAAG | GCAAAGGTAA | TCAATGGAAA | AAAGATAGTC | TTAGCAACAA | ATAGTACTGG | 5700 |
| AACACCACAA | TGTGTTAATA | AAGTGAAACT | GGAGACATCT | CTCACACCTT | ATACAAAAGT | 5760 |
| AACTAAAAAT | AAATCAAAGG | ACTAGATGTA | ATGTATCAA | CATTACATCT | TTTAGAATGT | 5820 |
| ATCAAACATT | ACAAGCTTTT | AGAATAAAAT | ATAGAAGAAA | ATTTACATGA | TCTAAGATT | 5880 |
| GGCCCCAATG | AAGTTTTAGC | TATAATAACA | AAAGTATTAG | TCATGGAAGA | AAACAAAATT | 5940 |
| GATAAGTTCA | GGTGGGCTAA | ATTAAGGGAA | AAAAATCACT | TTGCAGTAGA | GAAACCTGAA | 6000 |
| ACATTACCTA | AACCACATGA | TGAAGGTTAA | TATCAGTGAT | GTCATGTGGA | TATCATGTT | 6060 |
| TCCCTAAAAT | GATGTGACAA | GAAGGGCCCT | TTGCCCTTGT | GGTATTATTT | CAAAAATCT | 6120 |
| ATAACTCCGG | TGTAATTATG | AAAAAAAAGC | AAATGATCTT | CAGGACTGTT | AAGGTATGAA | 6180 |
| AAAGCAAGAA | AAGACTGAGA | CATTGTCACA | GACAAAAAAA | GACTAGGGAG | ATATGACAAG | 6240 |
| AAAATGCAGT | GTGGTATTCC | AGATTGGACC | TTGGAACAGA | AAGAAAACAT | TAGTGGAAAC | 6300 |
| AGTGGTGAAA | TCCACATAAA | GTCTAGGGTT | TGGTTAATAG | AGTTTCATGT | ATCAATGTGA | 6360 |
| GTTGCTTATA | TTTGACAAAT | GTATCATAAT | AATGTAAAAT | CCTAACAAATG | GGGGAAAGCT | 6420 |
| AGGTGAAAGA | TATATGGAA | CTCTCCTGTA | CTGTCTTGT | ACTATCTTG | CAACTTCCCT | 6480 |
| GAAAATCCAA | ATTATTCTAA | AACAGAAAAG | TTCATGCTAT | TAGAAGTGAG | GATAGAGGTT | 6540 |
| ACCTTGAAGA | AGCTGAGGTC | TAGAAGAGAC | CATGAAGGGT | CTAATTAGCT | AACACACGTT | 6500 |
| GAGTATCCCT | TATGCTTACA | ACCAGAAGTA | TTTCAGATTT | TTTCAGATTT | GGAATGTTG | 6660 |
| CATTATACTG | AGTATCTCAA | ATCCAAAAAT | CCAAAATCTG | AAATATTCCA | TGAGCACTCC | 6720 |
| TTTGAGAATC | ATGTTAGCAT | TCAAAAAGTT | GCCGATTTG | GAGCATTG | AATTCCAAT | 6780 |
| TTTTAGATTA | GGAATACTCA | ACCTGAGTAG | AGGCTGCCTG | CTAATTACCT | GGGAGCTAAT | 6840 |
| TACATGGATA | TGTCATTTG | AGAAAGTTA | GCTTGCTGAT | ATGGATGATT | TTCTGGATAA | 6900 |
| AAATTATACT | TTGATAACAA | TTCTTTAAA | GGAGACAATA | ATTATTAAC | TTTAAGTACT | 6960 |

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| TTTGTTCATA TTTATTTATT TGTTTCCCCC CCCCTTTTT TTTTTTGAG ACAAGTTCTC | 7080 |
| ACCTTATTGC CCATGCTATA GTGCAGTGGG TGATTATAGC TCACTGCAGC CTCAAACCTCC | 7140 |
| TGGACTCAAA GGATCCTCCT GCCTCAACCT CCCAAGTAGC TAGGAGTACA AGCATGCACC | 7200 |
| ACCATATCCA GCTAATTTC TTGTTATTCT ACAGAGGCAG GGTCTCACTA TGTTGCCAG | 7260 |
| GCTGATCTCA AATTCTGGC CTCAAGTATC CTCCCACCTC TGCTTCCCAA AGCGCTGGGA | 7320 |
| TTACAGGTGT AAGTCATTGC ACCCAGCCAA AAGTTTTATT TTAAACTTAT TATTATGAGC | 7380 |
| ATGTAACAGA TTTATGTGGT TTGAAATTCA AACCTACAAA AGAAAATAAT AAAAAGCTAA | 7440 |
| CAGATAGACA AACAAAAACA AAAGCAAAAC CCCACTTGGC CATGCTCTCT AGTTCCCTCAT | 7500 |
| TTCTCTCTTG GAAGAAACCA GAGCAATGTT CCCTGTGTAT CCTTCCAGAG ATAATTTC | 7560 |
| AAAATACTTT TTTCTTTTA ACAGAAGAGA TGGTAGACTA CTTCTTTAA ATAAATTAA | 7620 |
| TATACATTAA CTTGTTCTT TTTATTGCTA TAGAAAATGA AGTTGGGAA ACAGGAAAAA | 7680 |
| TGACCTAGTA TTATCATACT AACATACCAA AATTTTCAG TTATATGTAT TTCTGTTTC | 7740 |
| AGTTTTTACC CCACCTGTT TTTATTTGGT TTGAAATCAT AGTACAGATA AAAACTTGAG | 7800 |
| GCAGGTATT TAGACTTGTT TTTCTTTGT AACATAAAAC TTTGAGAGCA CCAGGAAATC | 7860 |
| TGGAAATATT CATTAGTTA TTCATAATTC AAAATATTGT TATATCCACT TTGTGTCAGA | 7920 |
| CTATTGTTA AGAACTAAC TAAAAGAAAA AGATGGGCT GGACATGGTG GCTCACACCT | 7980 |
| GTAATCCCAG CACTTGGGA GGCTGAGGCG GGTGGATCAC CTGAGTTGG GAGTCGAGG | 8040 |
| AAAGCCTTGC CAACACGGTG AAACCTGTC TCTACTAAA ATACAAAAAT TAGCCAGGTG | 8100 |
| TGGTGACACA CGTCTGTAAT CCCAGCTACT CAGGAGGCTG AGGCAGGAGA ATCACTTGAA | 8160 |
| CCCAGGAGGT GGAGGTTGCT GTGAGCCAG ATCATGCCAC TGCACCTCAG CCTGGGCAGC | 8220 |
| AAAGCAAGAT TCCATCTCAA AAAAAAGAT GATAACACCC TCTGGGAGAT TACATTAGA | 8280 |
| TAGAACAAAT AAAGGTGTAG AACCTAAGAT GTGACAAGGA CACTGTTGG TGACTGATTC | 8340 |
| TTCCTGGAA CATTATATAA GGCTCCTAG GGGAGGGCGT GTTTGTGTA GAGCTTTCCA | 8400 |
| GGTCAGAAAG TATGTACAGT GGAAATGTA TATGAAAAGA CCGTGTGTTGG GAATCAGGGA | 8460 |
| TTATATATTG TGATTAGAGG AAAGAGTCCT AGGGTTTGAT ACCTACAAAG AATTAGAGTT | 8520 |
| TCTAGGTGCT TCTGGACATG TGGATTGATG ACAGCAATAC TAAAATACA AAAATTAGTG | 8580 |
| GGGCATAGTG GTGAGCGCCT GTAGTCCAG CTACTGGGA GGCTGAGGCA GGAGAATAGC | 8640 |
| TTGAACCCGG GAGGCGGAGG TTGCAGTGAG CCGAGATTGT GCCACTGCAC TCCAGCCTGG | 8700 |
| GTGACAGAAC GAGACTCCGT CTCAAAAAAA AAAAAAGAAA AAAAGCAGGA GTTAGCAGAA | 8760 |
| AACCAACAAG ACATGGGAAG GAGAGAGAGA GCTGCAACAC CCAAGAGAAA AAATAGCAAT | 8820 |

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| AGGCAATGGG GCAATGACCC TAGAACTGCT GAGTTAGCAG CAGTGACAGA CTCAGTGCCA | 8940 |
| AATCATATAT TAGAAAAAAA AATCAGATAG AGGTAAAGTC CAGATCCAAA GAAGAGGGTT | 9000 |
| TTTAGCAGTA AAGCAGACAG TAGAACCCAC CCAGCTTCT AGGGTGCAGG GGGCCTCCCT | 9060 |
| TTCAGGCATC ATGAACAGTG GGGGACCATA ACTAGGCATG ATGGCTTCAG ATACAGGGCT | 9120 |
| TGTTCATCTC TTGTTGTGGT CAGGCAGTGC CTAATGAGAG CAACCCCTTC CAAATGCTAC | 9180 |
| TGCTGTGTTT AACTAGGGCT CTTGATAATC TGACCAGCTT CTGTCTTACT GATTTAGGA | 9240 |
| GAAAAATGGA GCAACCTGCA AGATGAGTGG GATTAGCTTC GTGCTGTCTC CCATGCACAC | 9300 |
| CACTCATGCA CACTTGGCGA GCATGGCAGT TCCATTATT TTGCACCCAG TTGTGATTTA | 9360 |
| AAAACTTTA ATTAATTAGT CTTATTAGTC TTCAGTTGGA TTTAAATGCC AAATAATAAAC | 9420 |
| CTTCTACCTT GTAAGAGGAG CCCTTTTACCA TAAAGCAAGG CTTAAGTTTG GATAAATT | 9480 |
| GTCCTATTAA TTATTCATCC ACAAGCTCTC TTAAAACACT GAATACACAC TAAGAAGGCT | 9540 |
| CTCAGGCATC CGAATAGTGT GATAAATCAA AAGCCAGTAA CTTCTCAAAG TCATTGTGTA | 9600 |
| TTAGTCAGGG CTCTCCAGAA AAATAAAACC AATAGAACAT ATATACATGG GCTTTACCC | 9660 |
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| CCTCCATATA ACATGCACCT TACTTATTAA TTGTCTTATT CTCTTCACA TGGCAGGGG | 9780 |
| TTGCATTTGT CTGTTACTG CTGTATCCCT AGCACCTAGA GTGGTGCCTG GCATACGGCT | 9840 |
| GGTGTGTGAT ACATATATTG GGAGTGGAGG TAAAAGTCAC CACTTAGGCT ATCCACTTT | 9900 |
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| CAAAAAAAAGT GGCTCAAAGT ATATATTAAC AAAGAACAAA ATGGAATAAT CCCATCTGAA | 10020 |
| GGCGAGGATA TAATAAAAGC AACATACCTT TTTTGGAG GACATGGAGA GCATCAACCT | 10080 |
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| CAAATAGTTA ACTTTGAAGA AATATATGAA TAATGATGGT ATCTGAAAAA GAGGAAAAGA | 10200 |
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| TGTGACACAG TTTAGTTCCCT GTCTATGTTC ATAAGAGAGG GCAAAGGCC CTTTACATCC | 10320 |
| AACCTCTGTA TGCCAGCAGC CACGTATGCC ACACCTAAA ATGGCTAAC AGTCATTCA | 10380 |
| CAGAATCGGT TCCAAGAACT CCAACAAAAA TTAGAGCTCA TGGTGCCAGA TTGGCCTGGA | 10440 |
| TTTCATGCT CCTGGGTGAT TACAAAGTTG TAAATAATGA TGCTGTCCAC TGATTTCAT | 10500 |
| CATGCGGGGC TCTCTGCTTC ACTGTGCCTT CCTCTTATGT CCATGGCACC AATTCTCTG | 10560 |
| ATAGTTCCCC CAGGGGATAG GGTTAGATGT GGGTTCATAA GCGCTGGACC ACTGAGGGTA | 10620 |
| ATTCACTCTT AAGACTAGCG AGCACTTCT GAATCTGAGG AGTCACATAT TAAAAGAGGC | 10680 |

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| AGAATCATCT TCTGATTCA AAAAAGCAAC TACATGACCA CCCTGAAAGT GATTCAAAA | 10740 |
| CAGTTGAAAG CTAGCTGTC AAGTTGATAA AAGCCACTGC AGTCCCTGC AGGGAATGCT | 10800 |
| GATGGGCTCC GTTCCCTCTG CACATTAGAG CCATTAAAT GAAATAATTG ATCATATTAA | 10860 |
| CTGAAATCAC CTGGCTTATA GCTCAGGTCC TAAGAATTGT TAGTGGCACT TGGAGCTACA | 10920 |
| AAGAGGAGTC CCCAAAAGAA ACGATTCTCA CTTTATTTG GCAAATGGGT GGCTTAAGTA | 10980 |
| GAACCTGGTCC TATTCATAA CAATAAAAAA GGAAAAAATA AATTTTATAT AAACTTATTT | 11040 |
| CCAAGATTTC TTACCCCTTC TTGTCAGCAT TTCAACTTA TTTGGTGGAA CTATCTTTC | 11100 |
| TCAATTATGT GTGATGTATT GTGGTCGTGA ATCATGGTGT CCTGAACTCC CTTTGGAAAGC | 11160 |
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| GAGCACTTTA CTTAAATTTC ACCAATTATA TTATCTCTG AGACCTTAAA TGTTGAGTAG | 11280 |
| AGGGAAAATA CAAGTTCAAG CCTATTATT TCAACAATGG AGCAAGTTGC TACAGCTAAG | 11340 |
| ACCTTTGAG GCTGCCTGTT TCTTCAGGTT TTCCTTGAT TCTCAGAGTA ACCCCACCTC | 11400 |
| AATTTATTG AATACATGTA CTTATGGCTT AACCAACACA CAGGTGGTTT CTTAACTAC | 11460 |
| AGTGCAAAAA TCTTCACACA TACAAACTTT TTAAAAAACAA ATTCTCAATA TGAAAAAGAG | 11520 |
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| ACTGAATTCC TAAAATTCTT ATGACTTTGT TAAAGGACTC AAAATGAACA TATATTCTGG | 11640 |
| CTGGGCAGGT GGCTCATGCT TGTAATCATA GCACCTTGGG AGGCCAGGA TTGTGGATCA | 11700 |
| CTTGAGGTCA GGAGTCGAG ACCAGCCTGG CCAACATGGT GAAACCCCGT CTCTACCAGA | 11760 |
| AATACAAAAA TTAGCCAGGC GTGGTAGTGG GTGCCTGTAA TCCCAGCTAC TTGGAAGGCT | 11820 |
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| TTGCACTCCA GCACGGCAA CAGAGGGAGA CTGCATCTCC AAAAAAAAAA AAAACAAAAA | 11940 |
| ACCTCATATG TCCTACAAAG CAAGTGATAA AAATCAAAAT ATGACAATGG GCTGAGAGGA | 12000 |
| AAGGGAAACT AGTAGTATTA AAGAAAGTTT TTAATGAACA AATAATGTTA AGGCGGATTT | 12060 |
| TTTTGTTTGT TTATTTGTT TTGGCCTTT TTTTTTTTT TTTTTTTTT TTTTGAGACA | 12120 |
| GAGTCTCACT CTGTCGCCGA GGCTGGAGGG CAGTGGCACT GTGTTGGCTC ACTGCAACCT | 12180 |
| CCGTCTCCTG GGTCAGCA ATTCTCCTGT GCTAAGGCAA ATTTTAAGG ATTATAAATA | 12240 |
| GTAAATATTA GAAGGGATAC TGCTAAAAA TAAACAATTG GGATAGCTAA ATGGTCTTCA | 12300 |
| GACTCTTTG ATTGTACAAC ATGTAAGA ATTTGAAAA CTTTAGGCAT TCCTTGAAT | 12360 |
| ATTTTTAACT TGATTTCTAA AACTTTCAT CAAAAAATAA ATTGTTTGT AAATAAAAGA | 12420 |
| AAACATTAAA CATGTTATAA GATGAAATAA GATGAAGAGT GACTATAATT AGAATAAGTA | 12480 |
| TTTCATGACA TAAGTTTATT TTAATAAAAG TTCTAACAC TTTATTGTAT CATTCATATC | 12540 |

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| AAGAATGAGT TCCTATCCTG TACTGCTTCA GTTATTCTGA ATTCAAGAAC TTCCCACTCT | 12660 |
| GGCCAGTCCT CTCTTATAAT AAAACATACA ATACTGTGCA TATTCTCAGT GATTAAAAAAA | 12720 |
| AATACACACA GCAGATAAAA GAAGAGGGAG CAGGCAAACC AAGAGCCAAG GTGAATGTGT | 12780 |
| TAATCATTAG CAGGTTATCC CCAAACCAAT ATTTGGAAGT ACTCCTTGT TGACAACCAG | 12840 |
| GAAGTGTAA CACTTCAGGC ATTGCACCTA AATAAAGTGT GGATGCCTTT CCTTCTAAA | 12900 |
| GTGGAAGGAG GGATATTGTG GACATAGGCA CATTCTGAGG CAATTTAGG AAATAAGTTG | 12960 |
| AAATTGATGG AAATTGAGAA AGACTTTGGA AAGTGTGTC CTGCCTCCAC TACCAAAAAG | 13020 |
| TCCATGGAGA AAGCAAAGTA AAAGGTCCAA AAATGAAAGT CAGCAGAAC CAGAAAGATG | 13080 |
| GGCAACAAAGG TTTTACCAT A CAGATAAATA GAAGAGAGAT TCTTAGTAAA GAAAACAAAT | 13140 |
| TGAGGACAAT CACTAAATAA AACAAAATCG AAGGAAACTC TAAGACCACC AGCCAAAAG | 13200 |
| CAAGAGAAAA TGATTAACAC CTTGGCACAT CTTGGTGAAG GAATTCCAGG ATAAAGAGAA | 13260 |
| TCCTATAGCA CCTAGCCTAA ACATAGCTCT CCTACAAAAA GTAGCTGGCT AACTAGACTT | 13320 |
| CCTCATATTG GACATCAGAA GAGACTAGCA GGAAGTCAAT ACTGTTTGA ATAAGACAAA | 13380 |
| TTGTGGAACA AAATTCTGT TCCCAGCTAA GTTAATATTAA CAATGTTTA AGGCTCCACA | 13440 |
| GTGATCATAA AGAGTACTAT GAAATAAATT CTCAGCTACT GTGGGACTCA GAGGCTCATC | 13500 |
| CAAGTACTGC TCCAAAAAAA TACTCCATTG AAATGTTTG AGATGAAGAA GGATAAAGGA | 13560 |
| TGGACATGAA AAAACAAAAC AAAAACACT TCATTGTCCA GGGGTATGCT AAGTGAGCAA | 13620 |
| GAAGTGTCCA GCACCAAA TTAAGGAGGC ACTCACTCTC ATGTGCCAAT TCTGTTCTTG | 13680 |
| CATGAGCCTA AGAAAGGATG CCTCCTTAAA TATTGCTTCT TGGGCACCTC ACTTGCCCTCA | 13740 |
| TCTTGGTTTC AGCCCTCAA TTATGTTCAA ATAACAGTGA AAAGTATAAT ACCAACAGA | 13800 |
| ATGCAAATGG TATAATTCTT CTATGGAAAC TACTCAATGC AAAATTAATA CATTAACTGC | 13860 |
| AAAAGGTCAG AGCAAAACTT CCAGAGAACCA GTAGTGAAAC CAAGAGTGAG ATGATAGGAT | 13920 |
| GCCTCAGTGT GTCTGTTTC TTATTATATA TAAGGAGAGA GACATGGCTA GGCATGGTGT | 13980 |
| CTCATGTCTG TCATCCCAGC ATTTGTGAG ACCAAGGCAG GAGGATCCCT TGAAGCCAGC | 14040 |
| AGTTTCAGAC CAGCCTGAGC AACACAGCAA GATCCCTGTA TCTACAAAAA AAAAAAAA | 14100 |
| AAAAAAAAGC TGAGAGTCAA CAGCCACTTT TTTACTATAT AGGTTATTAA CTTGAGAAAT | 14160 |
| AAAGCATTAA AAGAACAAATG AATTGGGAG CACAACACAG CAAAATGTAA TCTGCCACAA | 14220 |
| AAATTGGACT TAGAGGAGCA ATTTTCCTCT AAGCTTAAAC CTGTTTCATA ATTAATGAA | 14280 |
| AAATAAATAA ACTATCCAAA ACAAAATTAA TATGAAGTAA AGCAAAGGGA AATAGGACAT | 14340 |
| AAGCTTGATA AAAGATAAAG CTAATCAAAT ATAAAATAAA AAGACAAAGCA GGGCTGGGCG | 14400 |

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| CAGTGGCTCA | TGCCTGTAAT | CCCAGCACTT | TGGGAGGCCA | AGGTGGGTAG | ATCATCTAAG | 14460 |
| GTCAGGAGTT | TGAGACCAGC | TTGGCCAACA | TAGCAAAACC | CCATCTCTAT | AAAAAATACA | 14520 |
| GAAATTAGCC | AGACATGGTG | GTGCATGACT | GTAATCCCAG | CTACTCGGGA | GTCTGAGGCA | 14580 |
| GGAGAACATCAC | TTGAACCCGG | GAGGCGGGAGG | TTGCAGTGAG | CCGAGATCGC | GCCACTGCAC | 14640 |
| TCCAGCCTGG | GTGACAGAGT | GAGACTCCGT | CTCAAAAATA | AATAAGTAAA | TAAATAAAAG | 14700 |
| ACAAGCTATT | CTTAAAATTA | GTAAATGACT | AAGTAGTCTA | ATGAAGGAGA | AAGAAAGCAC | 14760 |
| ACATGCAATT | GGGTCAGAAG | TACAAAGAAG | CTAAAACCTC | AGATATAGAT | AAAATGATAT | 14820 |
| ATTATTAAAAA | AGATAGCCTG | ATAAAACAGT | TGAATTTTG | CAAATATACT | TTAAATAGTG | 14880 |
| TGTAAAATAG | ATGATCCTCC | AGATAACATA | AATGGTCAA | ATTGATCAA | GAAAAATATA | 14940 |
| AAACCCCTTA | AAAGACCAGT | AACTGAAGGA | AATTGAGAAA | GTTATCAAAG | TCTCCTCAAA | 15000 |
| ATGGCTTCA | GCCTGCATGA | TTTTACAAA | CCAATGCTT | CAAGCTTCA | AATAACAACA | 15060 |
| GCAATTATAA | AAATTCCATT | CTAGTCAATC | TTTTCAGAG | TAATGGGAA | AAAGGAAAGT | 15120 |
| TCTCCTTCT | TGTTTTGAA | ATCAGCATAA | GCTCCATATC | CAGACACAAA | AAAGATACAC | 15180 |
| AAAACACATG | TATGCATACA | GAGCCAATCT | CATATATCAG | TACATCAGCC | AAAGTCCTAA | 15240 |
| ATAAACTATT | AGTGAATCAA | ATTCTGTCGT | ACATCAAAAG | AATATTCAAG | GGAAAGCTCA | 15300 |
| ACATTAAGAA | ATACATTAAT | ATAATTCTA | ATATTTAACA | GTCAAGGAGA | AAAAGTAAGT | 15360 |
| CATCTCATCA | TTAGGTAGAT | GACAATAAAC | TATTTGAGAA | AACTGAATTA | ATTTTCATGA | 15420 |
| CTATTGTTAG | AAACAATCCT | TTAGGGATGG | GGAGGGGAGA | TGAATTAGAA | ATGTTTCCTA | 15480 |
| TCAGTTCACA | ATTGCATCTA | TTCTGAAGCC | ATTAGGAATG | TGAATGGTAA | CTCTTCCTCA | 15540 |
| AACCATCACA | TAAGGAAAGA | TACCTGAAA | GTCTGACACA | CCGAAGTCAT | CTGTCAGGAA | 15600 |
| TCAATCAGAG | AAGCTGCTGG | GAAAACCTCA | GAGAAGCTGC | TGGGAAAACC | TAGGCATTCT | 15660 |
| GAGTCATCAT | TGTTCTTATC | ACCCGTGGCA | ACTGATGCAA | TTGGAAGCAA | CTGATGCTTT | 15720 |
| CAGGGTCATG | GTTTCTTCAA | AGCCTGAGCT | CATTAATT | GCTGTTGAG | AACTTGCAGT | 15780 |
| TTGATCCAAA | AGCTGACAGC | ATCGATTGAC | CCATTGCCTT | CCTTCCTGCT | CTGATACTGG | 15840 |
| AAGTTCCAAC | AAAAGAGGAG | GAGGAACAGG | ACCAAGAAGA | ACATGAAAGC | AGAGGACCAG | 15900 |
| GGGCCGGCG | CGGTGGCTCA | CACCTGTAAT | CCCAGCACTT | TGGGAGGCTC | AGGTGGCGG | 15960 |
| ATCACGAGGT | CAGGAGATCG | AGACCATCCT | GGCTAACATG | GTGAAACCCC | GTCTCTACTA | 16020 |
| AAAAATACAA | AAAATTAGCC | GGGCATGGTG | GCAGGTGCCT | GTAGTCCCAG | CTACTGGGGA | 16080 |
| GGCTGAGGCA | GGAGAACATGGC | ATGAACCCGG | GAGGCAAAGC | TTTCAGTGAG | CTAAGATCGA | 16140 |
| GCCACTGCAC | TCCAGCCCCG | GCGACAGAGT | AAGACTCTGT | CTAAAAAAAAA | AAAAAAAAAA | 16200 |
| AAAAAAAGCA | AAGGACCGAA | GGACCAAGAC | CCCTTCCCAA | CTGCTCCATT | GGTCAAAACG | 16260 |

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| AAGTCAGAGC AGAACGCTCTC AAAAGGATGA TACTTTGAAT TTGCTTCTG TTTTATTTTC | 16320 |
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| AAGTCAAGAA ATAAAATATT TCTAGTACCC CAGGAGCACT TCTTAAGTAC CATCCATCCA | 16440 |
| GCCACAAACCC CCATCCCTGC ACAAGGGAAA TCGCTCACTG ATTTTTAACCA GGACAGATTG | 16500 |
| GTTGTAGCTG TTTTAAAAAA GTATTTATA AACCTTAAA AGAATGTGCG TTTTGTCTTC | 16560 |
| CTTTAATCAA TATTGTGCTT ATGAGACCCA TTCATCTATT ATATATTGGG GTCTGTTAAT | 16620 |
| TCTCATTGCT ATACAAATAG ACCGTGGTTT ATTTACTCAT TCTTTTTTA ACAGACAACT | 16680 |
| TCCTGTTCAAG GCTATTACAG ATAGTGCTCC TATGAACATT GTTGTACATG TTTTATGGAT | 16740 |
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| AGATATTGCC GAGCAGCTTT CCAAAGTTCA CATTGTAAC GTATGAAAGT TCCAGTTGCT | 16860 |
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| ATAGGGTAT TTCATTGTAG TTTGATTT CATTCTGTA ATGACTAATG AAGTTGAACA | 16980 |
| TCTTTTATA TGTTAAGGAG CCACTTACAT TTTCTTTTAT ATGAAGTCCC TGTTCAAGTC | 17040 |
| ATTGGCCCAT TTTTAGTTG GGTTGTCTGT CCCCCACCCCT TTTTGTTTT TTTTTCTCT | 17100 |
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| GGAAAGTAAG AAAAATATGA AGAAGGTTAA ATTATCTTT TCTACGCTCA AAAGGAACTT | 17580 |
| CTCTTGTATG TGATACACTT CTATGCCTTG TATGTGATAC ATTTCTATGC CTTTCTCAT | 17640 |
| CTTGTATGT CTTCAATATT TTTCTCCCCC ATATAAATTG TCATTTCACT TGAAAGTGTG | 17700 |
| TCTGTCATCT CTCTCCAATT TTCATTATAT GGTCTAAACT ATATTGCTAT CCCTTCTGGA | 17760 |
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| TCTTCTCTGT CCTTGATTTC TAAGTTAACC TCATTTATTT AATCTTGTAT TGGTCATTTT | 17880 |
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| AGAATTAAAT CACATAAATA AACGTCTATG TTTACAATG TATAAAAAAT AATAAAAAC | 18060 |
| TTAATTCTGG GGATTATAGC TTTACAGTTC CGATCGGTGC TGAGATCTGT AACATATGGC | 18120 |

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| TACAATTCCG AGCAGATCTT CTCTGCATCC AATAACCTGC CCCACCATGA AGATATTTAT | 18180 |
| CAGTGATCAT TTTCACATGA ATTTTTATTT ATTTAGTACT TTCCAATGAG GAAAATTCAA | 18240 |
| AGGCCACATG AATTGACTTT TCAAGTTGT CCAGCTGTTG TCAACCCCGG GCGCATGCTA | 18300 |
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| CACCAAGTTCT AGTAGCCCTC CCAGTTGTGT ATTGCAATGT TGATCACAAG GAATATAAGG | 18780 |
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| ATGCACATGG GGTTCTGAGT TGAGATGGTT ATTTCTTTAA ACAAAAATAA AATACACTAA | 18900 |
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| TTGTTTTGTT TTTTTTGTT TCTGTATTGG CTGTTGACAA CTATCACTAC AACCCATCTC | 19080 |
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| ACTTGATCAC ATAGAAATGT AGTAAAACA AAACTTCTCT TTGTAAGTTG GTTCTCGTCA | 19260 |
| GTCCTTCCAT CCCTGCCTGG GTCTGTCTT TCATCTTCCT CATGAGCCTG CATTCCAAA | 19320 |
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| TTTAAACTGG CCTAGGACAC TTTGTTCCC TTTTGTGATT TTTTAAAAT TGGATTAGTC | 19440 |
| TGAACATATT CTTCATGATC TTCTTTGCC CCTCTGTCTT CGTCTCTTGC TATTCCCTGA | 19500 |
| CATGTGTCTT TCATTCTGGT CATAACTAAG AACTGTTCA TGCTCATGTA CCTCTAGGAA | 19560 |
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| TCTTGAGAAA ATAAGCTTAT ATTTTCTTC CTCTGGAAA TCTGACCTAC CAGAGTCTGA | 19680 |
| TTTAGAGGCT CATGTAATAA GAGTAATTGT GTTGCCATCC AGATCTTAG AGCACCGTGT | 19740 |
| GTATCTCCAA CACCTAAAAC AATAACCTGCC ACTTGAAGAT GTTCATAAAA CTGGCCCAAC | 19800 |
| CTGACTGATG AGGAATCCAG TGGCAGTGGG AGAGATGATT CCTGCGATGA GCCCAAATCC | 19860 |
| CCTTGAGATT CCCATGAGGA AACTTGCACTA TCTGTGGGAA GATGATTAA TAAATGATTT | 19920 |
| TATATAGAAA GCCACCTACA GCTTCTGCAG CAACTCAACT TTAATGCAAT TCAGCTCTAA | 19980 |

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| TCTCTGGAA CCACGTTCT TTACCCCGGC TGCTCAGTGG AGAAGCCAGT TTGTGCAACG | 20160 |
| GGCAGGACAC AGACTCCAAA GCCAGACTCC CCCAGTCAA ATCCTGGCTC TGCCTTATG | 20220 |
| TGACCATACT CACACCATT AACCTCCTTG TGCCTCAGCC TTCTCCCTTA TAAAATGGGG | 20280 |
| ATAACAATAG GGCCTACCTA ATATAACTGT GAGGATTAGA TGTGTTGATA TATGGCAAGT | 20340 |
| CTTGGCACAG GAGCTGGCTT ATTGTGACTG TATATATATA TATATATATA TATATATATA | 20400 |
| TATGGTAGCT AATATGAACA ACACCATGGA AACTTTCCA AATCACCTGT GTGTGGCCT | 20460 |
| TTTCCCAGCA TACACAGTTC AATCTCTGTT AGGGAAAGCTT GGGAAAGTTT TTGTCAAAAT | 20520 |
| GATTACTGGC CAAGATTGGA AATTGTTGTT CTAAAAATGC CACATTGTT GTTCTAAAAA | 20580 |
| TGGCCACAGA CAGATATTTG TAGTTATTTG TCATTCTGCC ATTAGTGCAA TGTCACTAAC | 20640 |
| ATTAAAGAGT TTCACGGCGA CCACTGAGGT CTAACACCTC TGGAGGGTC TGGAGGAGGG | 20700 |
| GAAAAAAACAG GTAGAGCTCT TACCTGGGG CGATATCTAA GGTGTTGATG ATAAACCTG | 20760 |
| AGTCACATAG GTTACTGGTC CCAGGAATAA GTATCAGCAA AATAATGGTT ATCACGTAAC | 20820 |
| TGGAGGCCAC AAAGGGCAGG GCCACAGCAC ATATTGATGG AAGGAGGAGC CCTGGCAAT | 20880 |
| GAGGACATGC TGTCAGGGAA CCCTCTGAGA CCATGTGCAG AAAAGGGATT GGTAAATGG | 20940 |
| GCCCCACACGC TTATCCTTAC CAAGAGATGA AAAGAGCTTT CGCACAGTGA TCAATCTGAG | 21000 |
| AAGATTCCCTG GACAAAAGGA AATCTGCCAG CTGACCTCCT AAAATTGTAC AGCTTGCAGC | 21060 |
| AGCAATAAAA GGCAGGGAGG ACAGAACTCC ACTCTGAAGG AAGGAAGTTT ATACAGAGTA | 21120 |
| GTTATAGAGA TACGTTAGCA CCAAAATTTG TCAGTTACAC AGACCAGCCA TTAACCTTACC | 21180 |
| CCCATGATAC TGTGGTTGT TTGGGGAAA ATTAGCATCC TTTTCACAC TAAAAGAACAA | 21240 |
| CTGTCTCAGA TAAGAGGGCC AGAAGCTGCA TCACTCTGGG CTCCAGATAA AAGCAATATT | 21300 |
| AATTTCTTGG GTTTTTGTT TTTGAAACGG AGTCTTACTC TGTCGCCAG GCTGGAGTGC | 21360 |
| AGTGGCATGA TCTTGGCTCA ATGCAACCTC CACCTCCTGG GTTCAAGCGA TTCTCCTGTC | 21420 |
| TCAGCCTCCT GAATAGCTGG GATTACAGGT GCCTGCCACC ACACCTGGCT AATTTTGTA | 21480 |
| TTTTTAGTAG ATGATATTAA GTAAACCATA TTGGTCAGGC TGGTCTTGCA TTCTGACCT | 21540 |
| CATGATCTGC CTGCCTCGGC CTCCCAAAGT GCTGGAATTAA CAGGCATGAC CACCATGCCT | 21600 |
| GGCCCAGCAA TATTATTTCT AAAAGAAGCT TTGGAATCAG CTGGTGTGGT AGTATAGCAT | 21660 |
| AGTGGTTAAG AATATGGATG CTGCAGCAGC TCTATCACTT AGTATTGTGC AACCTGGGC | 21720 |
| AAGTTATCTC ACCTCTAAAGT GTCCTGTTTC CACATCTGTG AAAAGGGAAT TATAACAATG | 21780 |
| CCTCTCTCAA GGTCATTGTG AAGGTTAAAT TAATGGTTAT ATGTAAAGCC AGAATGTAAT | 21840 |

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| AGGTAACACA | GAACGTGTTTC | TCCTTATTAC | CATTATCATT | TTCGTAGAAG | TATAGGAAGT | 21900 |
| AAACTCACAT | CTCTGATGTT | AACATGGAGC | AGAGTACTGA | TATACTGTTGG | TAGGTATGTT | 21960 |
| AGGATGATGG | TGCACAACCA | GAAATGGCTG | AAAAAACCCA | GGAAAATGGC | CCAAAGTGTT | 22020 |
| AGGCATGTGA | CCATCGCCTT | TATGGGGACA | GCTCGTCCAG | GAGAACTGGG | CTGAAAAGAA | 22080 |
| AGATCTAAC | AGCATGAGTA | TTAGAGCAGC | CAAGATGGTG | CCTCTCAGAG | GAGATCCACA | 22140 |
| CCCTGCCCTA | GAGACCTCTG | CATGGGCCAC | AGGTACAAGG | TGTGCACTGT | ACCTGTTGAG | 22200 |
| CCAGTGAGGA | CAGGATGTGC | TCCTTTCCC | TAACACTTAT | GCACGGGTGA | TGCATGGGT | 22260 |
| CATCATAAAT | CACTGTGAAC | CATAGGAGAC | AGCAGACACA | GCCAGTGCTA | CCTGGGAAGA | 22320 |
| AGGGATAAAA | TTAGTTTTA | GGTAGATTG | TTTACTGGGG | GAAGGAAGTT | TCCTCTGAAG | 22380 |
| TGGCATGCCT | CTCCCTTCTA | CACACTAAC | AATTAATGCT | TATTCTACCA | TAAGGACCTA | 22440 |
| AATGTTCCA | TTCTTTCTTT | CAATCCTCT | ACAAACCTGT | TAAAGCTTTT | TAGATATTAC | 22500 |
| GTCTCAAATA | GAAAGCCACC | ATTTGTCAAT | GTCAGAGCCC | TCTGGAGATA | ACAGGAGCGT | 22560 |
| GGCATTGCAT | AGCTGATTAA | TTACTTTAAA | GTCTCCAATG | ATTACAGTGT | TATGTATT | 22620 |
| AGGCAGCAAC | TTCTTAATGC | ACACATAAGT | TGTCTTGTG | CGGAAGATCT | GAATAGTCAG | 22680 |
| GTTCAGTC | ATACATACAC | GAAACAAACCT | TCCATGAAAT | CATGTGGCAG | GGAAAAATT | 22740 |
| CCAATGCACT | TACAAGAGAC | AGTATTATTT | GTATTCAAGC | CATACATCCA | TTATGGATT | 22800 |
| CCAAAAGAAA | TATTTTGTA | CAATACCTGG | TTAACATGTA | CAAACCAAA | TAATTAGCAT | 22860 |
| CATTAATGAG | AAAGCCATTC | AGGCCAGGAC | TATATTAAAT | GACACCATT | GGCTATAAAA | 22920 |
| ACAAATCAAG | TGTAGAAAAT | TGTCTTATTA | TTGGAATTCC | TTATTTGAAG | AACATTCTAT | 22980 |
| GTAAAAGAT | TCTGAGGACT | AGTTTCTTT | AAATCCCCTC | TAATTACTGG | ATTCACTGAT | 23040 |
| TCTTTTATT | TAAAGCTAAA | AATCAGGCAC | CATGATGACA | CCCAAGTGAT | GAAAACATAG | 23100 |
| AATGGATTCC | TTGCCTCAAG | CATTCACAG | TCTAGTGGAA | AGAAAAGGAG | AAATAAATAA | 23160 |
| TTACACACCA | ACATAACCTA | GAGAGGAAT | ATCATAAAGG | AGAGAATGCC | AGAATCTGAT | 23220 |
| AGGGTAAGCC | CTGGAAGGGC | CCATGGGAA | GGGAACATT | GAATTGAAC | TTGCAAGATT | 23280 |
| AACTGGTAG | AGAACAGGTG | AAAGGCATCT | TGGACAGAAA | TAATAATTAT | AATGAAATAT | 23340 |
| GAAGACACAT | TGAAAATGTA | CTTCACTATC | TTGACATCT | TAACTGCATA | TAGCAGGCAC | 23400 |
| TTCAGATGTG | GTGGTAGAGA | TTCTGCAGAA | GGTGCTTGAT | ATGGAAGGAC | AAGACTGCAT | 23460 |
| CACAAGTCGG | TGGGTGCCAT | GTGAATAGTC | AACTCCTCTA | CCTTGTGCGT | GTGGCTTCCC | 23520 |
| AGAACCAACCA | GGAAGGTGTT | AATCAGGTTG | TGTGACTAGA | TTAAAATGA | TACCAACC GT | 23580 |
| TGACATTTT | TATCATCTTC | CATTGATAA | AGGACATT | TTTCATATA | GGAAGAATGT | 23640 |
| GGGTGGTGTA | GGTGCCAAA | TGGATGCTA | GGAAATGGAG | GCGTTAGGAT | TTAAGAGAAA | 23700 |

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| GTGACTCACCA | AAAGATGTAC | AAGATAAAAG | GCCAGCTCAA | GGCCTGTGAG | ATTAGTCCCC | 23760 |
| CCACACAGAG | GATGATGAAG | GATCCAAATG | CTGACCCTAA | AGGAAAAGG | GAGAAAACA | 23820 |
| CTTATGAAAA | TATCAAAGGC | TGAGACTTCG | TGGCCTCCCT | AAACAATGTC | CCAACAGTGA | 23880 |
| GGTGGCAGAC | TTAGAATTAT | TGGGCAATGA | GAGTATTAT | TTCTAAAATA | GCTCACAGAT | 23940 |
| TTTCCCCAGT | AAAGTAATAT | GATATAATTA | AAATTAACAA | ATAATAGTAA | CACACTCTCT | 24000 |
| GATTCTCAA | TGGCTCCTCA | ACACCAATGT | GACCAAATCT | AAATCCCTTA | GTTTGTACACA | 24060 |
| GTAACTCTCT | GCTATCACAG | CCCATTAGCA | TTTTCTTGTG | ATTACAGTTG | CATTCTTGCA | 24120 |
| TGATCTAATA | TGAGGCTAGG | GGCAGGAAAT | GAAAGACTTA | CAAAAATCGG | TAAGATACAG | 24180 |
| CCCCTGCCCT | CAAAGAGCTT | CTGGTCCAAT | TGGAGAGAAA | AATGTGAATA | AAATTGATTG | 24240 |
| TCACTAGTGA | AATGCCATGT | AGGCTTTGGA | AGTCTACATT | AAAAAACAAAC | AAGACACATA | 24300 |
| TTTCACAGAG | ACCTATAGTA | AGAAATGCAT | TTTACAGGGT | AACATAACAC | ACACACCAAT | 24360 |
| ATGCATAAAC | ACTTGTACAT | ACAACCACAC | ACATATGCCT | CAAACGATGG | TTTCATGAAT | 24420 |
| CGATATTTAA | CTTTACCATG | TCCAATGCAC | TCCAACAAATT | TCTATTCTAT | TCTATTCAATT | 24480 |
| TTTTAAAATA | ATGATTTAA | CCCGCTCAAT | GGATTTATG | ACTCACTAAT | GGGTCCCAAA | 24540 |
| CTGAAATTG | AAAAAAAAGA | TGTAAAATAT | AAATATAATA | AAACTACAAT | GTACGTGGAA | 24600 |
| GTATATCTGA | GGATAAAATTG | ATAATAATTA | TAAGATTTAG | GAAGTTTGG | CCGGCGCGGG | 24660 |
| TGGCTCACCG | CTGTAATCCC | AGCACTTTGG | GAGGCCGAGG | CGGGCGGATC | ACGAGGTCAG | 24720 |
| GAGATTGAGA | CCATCCTGGC | TTGAAACCCC | GTCTCTACTA | AAAATACAAA | AAATTAGCCG | 24780 |
| GTCATGGTGG | CAGGCGCCTG | TAGTCCCAGC | TACTCGGGAG | GCTGAGGCAG | GAAAATGGCG | 24840 |
| TGAACCCGGG | AGGCGGAGCT | TGCAGTGAGC | CGAGATAGCG | CTACTGCAGT | CCGGCCTGGG | 24900 |
| CGAAAGAGTG | AGACACCGTC | TCAAAAAAAA | AAAAAAAAAA | AAAAAAAAAA | GGTTTAGGAA | 24960 |
| GTTTTTACAT | AAGCTATGCA | ATAGGATAGA | TGGAATTTG | GCACAAGGAA | CAGGGCAAA | 25020 |
| GAACCTTCCA | GGCATATAAA | CTAACGGGAG | CAGAGCCAGA | GGGAAGTGCA | GTGCAGATCT | 25080 |
| ATGTGGAGAG | CAGCCAATGT | CCAGTGCCAC | TGGAGCCATG | CTTGCACAGG | GGAGTTGAGT | 25140 |
| GGAACAAGGT | TGGGCCAGA | TGGCTAAGAA | CTTTGTATT | CATGCAATAA | AGAGGTCAGG | 25200 |
| CTTTACTCTG | TAAGCATGAA | GGAACACATT | GAAAATTCTC | AAGCGGGTGA | GTAAAATGT | 25260 |
| GCCATCTTTA | TTTAGCAAG | CTAACTTGGT | TTTGGTGGGA | AGAAGGTTGA | AAGAAACCAG | 25320 |
| TCTAGAAGAG | AGAGATCAGC | AGATAGTATT | TGCAAATAGA | GGAGATGGTT | ACAACATATGA | 25380 |
| TGGAAGGAAG | CAAGAACGCA | GGAGGGTTGC | TTGAGGTAAA | AGTCTGCAGG | ATGCAGCTGT | 25440 |
| GTAGTGGACC | TAGGAGTGAG | AAGCTGGATG | GAATTTTAGT | TCTGCTTTC | GAGTATATAC | 25500 |
| TCTCAGCACG | ACAGGCTGGG | GAGAACAGCA | ATGATAAAAGC | TGTAGAGGCC | TGAGTAGGAT | 25560 |

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| CACATACCAG | GGAAAGGCAG | TCTAGCATAG | TGATTGAGAA | TGTCTGCTCT | GGGGCTAAAA | 25620 |
| TCTGCATGGG | CTTAAATCTC | AGACCTACCA | CCTGCTGGCT | ATTTGTATTT | GGGCAATT | 25680 |
| CTTAATCTCC | ACCTTCCTTA | ACTCCCTTCT | CTGTAAAATA | AGAATTAAA | ATGGTACTTA | 25740 |
| TATGAGAGGG | TTGTTGTGAG | AATTAATGAG | CTCATAATAG | AATAGTAAAG | AGCTTAGAAT | 25800 |
| AATACAGAAA | CTTCAAAC | TCAGCCTG | ATTTCTCTCC | TTACCACCTG | GAGCTGTGGT | 25860 |
| AGCCTTAATT | CTCACTCAA | AATCATTGCT | AAGATGGTGT | ATATATAGCT | TACTTGATCT | 25920 |
| TTTTCCATGT | GTGCAATTCT | TAAAGGTTA | AACTTTTCC | GACAAGGCTT | TTCTGACTAC | 25980 |
| TAAGGCTTT | CTGACTACTA | AGGCTTTCT | GAGCTGAAAC | CTAGCTCACA | ATGGTTTTT | 26040 |
| CTACTTCTAA | GCTTCATGT | CTTTACTGCA | CAGATGCATC | TTTCCTATTT | GTGATGCAAG | 26100 |
| TGTCTTATAT | TGTTGAATT | TTCAGCAGTA | CTTTTCTCT | CTCTTCCCCA | AACCATTGAA | 26160 |
| TTCATAGAAC | ATAAGACACA | GTGGGATGGA | ACAGATGACA | AAGCTATGAC | CCATCTGTGC | 26220 |
| ACACCTTACCT | GATCCTGCAA | TGGTGGTGAG | CTTGCTTCGT | TCAAGTGGAG | GAGCCCAC | 26280 |
| TGCCCAAATA | GTAAACTGAC | CTGTCCATGC | CATTCCCTGA | AATGAAAATC | ATTAAGACCT | 26340 |
| TTGATATT | GTAGAATTCA | GAAATCTGGA | TCCCACCAAG | AATGAGAAAG | TATCTGGATA | 26400 |
| CCTGGGCCAA | GCCCTGGACT | GTCCGAACCA | TGATGACCAA | AATCACTCCG | AAGTCAGCAG | 26460 |
| CCAGTGGTGT | AAAGAGGGTG | AGAAGGGAAG | AGATCAGCAA | ACCAGCACCA | AGCATT | 26520 |
| TTGCTCCAAA | TATCCCTGCT | AAATATCCAC | TTGGGATCAG | AGTCAGTATT | ATCCCATA | 26580 |
| TGATGGAGCT | AAAGATGATA | CCCTGAGTT | CTGGGCTCCA | TTGATACACA | GAGGCCTGGG | 26640 |
| GGAAAAATAG | GAAAACTCTT | TGTCAAGAAC | TCCTATTATG | AAAATCTACT | TTACAGTCAG | 26700 |
| AGTTGCTTGA | GGTTAGTGAG | ACCCTAGTAT | AAAATATTGA | TTTTGTTTC | TCTCTATATT | 26760 |
| CTTCCTACCT | TCCCAAATAA | CCAATTATAC | CCCTAATTG | CTTGCTTTAG | TAGAAGGAGA | 26820 |
| GAAAAACAGA | AGAAATGAAG | AAAAGAGGTA | AAGAAAATGA | TTATATAGAT | GAATAATAGG | 26880 |
| AAGAAGTAAA | TGGAAGAAAA | CATTGAGAGA | TATTCATCT | GTGAAAGCAC | TTCTCTATT | 26940 |
| TTGCTTCTAG | AAAAGTTGA | GTAACATCTT | GAETCTTATA | TCAAAGAATT | TTTAAAACA | 27000 |
| CACACACAAA | ACTTTACTGA | ACTCTAAC | AAAATCAGTG | CCTAATTAAA | AAGAAAAGTC | 27060 |
| AAGTTGGGA | ATCATGGTCT | GCCCTGGCTG | AACTGAGTTC | CTAAAACACA | TATTACAAAT | 27120 |
| GAATAAGATC | ACATTCTCT | GATATAACTC | AATAAATAAT | TTGAATTATT | TTAAAATAAC | 27180 |
| TACCTAAAAT | TCCTAAATAA | TTACATAAT | TATATTACCT | GAATATTAC | CTAAAATAA | 27240 |
| ATAGATTTA | AAATAAATAA | ATAAAAAATA | AAATAGATTT | AAAATAAAAA | AAAAAATAA | 27300 |
| ATGCAATAAG | GCCCTAAAT | ATCTGGCATC | ATGCTATAAA | GTAGAGAGCC | AAAGAATATA | 27360 |
| AAATATGAAA | TATTTACCC | ACTCAAAAAA | ACTATAAATA | ATACAAGGTA | TATGATTCA | 27420 |

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| GTGAGAACATCA AGATTTGAGG ATGAACATAA ATAAAACAGA GACTTGAGA GGAGAAAATA | 27480 |
| ATAATTTGGG AAGGTCCCAG AAAGGAAGCA ATACTTGAAC TATCCCTTGA AAAATGACTA | 27540 |
| TGATTTGTAG AAAGTCAAAA AGGAAAATT TATCTCATCG GAAAAAAATAG CAAAAGTGAA | 27600 |
| CTTGTAGCAT TTGGAAGAAA CTAACAGGGA CTCTGGCTTG CTCAGGGCAA AAACTTCCA | 27660 |
| TGGGTCATTG ATAGCAGATG TGAGTGTGCT GAGAACGCAGG CCCAAATTCT GAAGGAACAC | 27720 |
| AGCATGTCCA GTGAACACTG CATGTTGGC AACTTGAAGG TGTCCAAGAT TCCTGAGTAG | 27780 |
| TGAATCTACT CAGTGTGGAT ATGTAGACGG GATAATGGAG GAAAGACTGG AGACAATAAA | 27840 |
| TTTATGTACT CATTGTAAAT AAGCTAGGTC CAATGTAATA AAATCATTAA TCATGAATTA | 27900 |
| TAGGGATGAC ATGGGAAATG TACAGTACAA GATAATTAA AGGATAATT TTTAATTGG | 27960 |
| GTAAATTCAAT GGTTTCATA TAAATGTAAA ATAAACATAC AACAAAGATT TTATTTAACT | 28020 |
| CATTGATTAA TGGAGGAAGT AAGTAAGATG TTATAACTGG TTCAAAGGAA AACTCAAAGA | 28080 |
| ATCACGCATA ACACAAGCAG GAAGCAATGC TGAAATAGAC TTTAAATATA CAGCAGAGCC | 28140 |
| TGGCACAGTG GCTCACACCT GTAATCCCAA CACTTGGGA GGCGGAGGCG GGTGGATCAC | 28200 |
| CTGAGGTCAG GAGTCGAGA CCAGCCTAGT GAAACCCGT TTTACTAAA AATACAAAAAA | 28260 |
| TTAGCCAGCC GCGGTGGCAT GCCCCCTTAC TCCCAGCTAC TTGGGAGGCC GAGACAGGAA | 28320 |
| AATCTCTTGA ACCCGGGAGG CGGAGGCTGC AGTGAGCTGA GATCATGCCA CTGCACTCCA | 28380 |
| GCCTGAATGA CAGAGGAAGA CTCTATCTCA AAAAACAAAC AAACAAACAA ACAGCAAAAT | 28440 |
| TGGCTAATTCAACTGGGAGG TGAGTGGAGA AAAGTTTAA CTGATTTTC TCTTGGCAAA | 28500 |
| ATTTATTTGC AAAGCTATGG ACAAGAACATCG TTTGCATTTC TATTGGTTAT ATAGAATTAA | 28560 |
| CAGGGATATA AAATTGCTCA GAAACAATAA AACAGGCAGA GAACTGAATA GGATTGAGTA | 28620 |
| ACCTATAAGA ATGTGCCAG GTAATACCTA GTTTTCATT GAAGACATCA CATAAACTGT | 28680 |
| TCCATTTTA AATTTTCAC ATTAACTCT ACAGTTCCCC CACCTTATAA TCATAATAAC | 28740 |
| CTCAATGAAA TCTTATTTT ATTATTGAAG TAAGCAATGT CTCAAAGAAA AATAGTTCCA | 28800 |
| GTCAGTTTA ATTTGTCATT GGAAATGTAT ACTTCCATAC TCCACAGAAT CAAGATCTAT | 28860 |
| GCCTTCCTT CAAAGTTTT TCTCTCAACA AAGAGCCCTA TTTCCATCA TACTTACCTT | 28920 |
| TGTATCAAAT TCCTTGATGG ATATGCTGGA GTTATTGAAG GCATCTGCAA CAGGCCCTC | 28980 |
| AGTGGAGGCA TTAGATAGAC CTTGCTGCTG AGTGGTGTTC ACCATGGCGA TGATCGCAAT | 29040 |
| GCTCAGACTC ACACGCTGCG TTATCATGGT GAAGTTGAG AAGTGCATGA TAAGAGCCAG | 29100 |
| CCCATAGCGT AATGAACAGA AATCTGGACC TAGACAACAA CACAGATGTA TGTAGTGAGC | 29160 |
| ATCCTGACTG AGACCCCTT CTTTCCTT CTCTCACAGC TCGATCTGAT AGAACTTTGG | 29220 |
| ATGACACATG AAGTCTCATT GTCTTTTTT CACCAAAATA GCCAGCACTA CAAACCCACT | 29280 |

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| TTGTCAAATT ATTTGGTTGG CTTCAAGACA GCGAATATGG GATCTTATAA CCAAGTAAAG | 29340 |
| CAAATATGGC CATCTTCAA GGGGATAGGA AACACATGAT AAATAGAGAA AACCCACATG | 29400 |
| TAAGGCATTT ATGTCATATT GCTCCAAAAT GAAGTGAATG GGGATGACAG TGGCAGAGCC | 29460 |
| AGTCACATAA CCTTCTCAGC GTCAATAAAA TTCCCTGGGC TGTAAGTGAA TAGTCCCAC | 29520 |
| TGTTATGCAC ATTTGTTAT CACAAAGCTT GAGAGTTAT ACATAACGAG CTGCCCTTGA | 29580 |
| ATTAAGGTAT TGCACATCCA AGGATTCTCT TTTAATACAT TTGAGAGATG GTACTTTAAA | 29640 |
| TGAGCACTTC GACTAATTCC CTAGTGTAAAT GTCTACTTGG AAATGTTATT GCTATGTGTC | 29700 |
| ACTAGGT CCT GCCTCACAT ATGTTCAACT TAAAAAAA AAAAAACTAC GTGGGGTGCA | 29760 |
| GTGGCTCACG CCTGTAGTCC CAGCATTG GGAGGCTAAG GCAGGTGGAT CACTTGAGGT | 29820 |
| CAGGAGTTG AGACCAGCCT GGTCAACATG GTGAAACCCC ATCTCTACTA AAAATACAAA | 29880 |
| AATTACCCAG GCATGGTGAT GCATGCCTGT AATCCCAGCT ACTCGGGAGG CTGAGTCAGG | 29940 |
| AGAACACTT GAACCCAGGA GGCAGAGGTT GCAATGAGCC AAGATCATGT CACTGTACTC | 30000 |
| CAGCCTGGGT GACAGAATGA GACTCAATCT CAAAAAAA AAAAAATTAA ATATGTAGAA | 30060 |
| CTATTTTAC AAAGCTTGCA GGTGATGTGG TGCTGGAAGA TATTCAATAT ATTGAAAGGA | 30120 |
| CAAATTTTT CTTTAAAGC ATCCCCATAA AATGGAACAA CCACAGACCA ATATTGAAAG | 30180 |
| GTTCCCATG TGCATGATAG ATTGGATTT TCCTGCTTAT TTGAAGAAAA GCACTAAAGT | 30240 |
| GAAAGAAAGA GAAAACCTGT GAAGACACAG ATAAAAATAT AATGGAAGAA ATAATTTTA | 30300 |
| ATGGCCAAA AAGCTCACAG ATAAGAGTGG TGGTCTGGGA AATAATTATT TCCATTTAC | 30360 |
| TGGAGGTTTC CAAGCTCAGG AGAAAGAGCC AGCCGCTTGG TGAGAATATT ATAGTAGGGA | 30420 |
| TTCATACATA GGTTGGTTA AAATGACTTT CCCGGGCCAG GCGTGGTGGC CCATGCCTGT | 30480 |
| AATCCCAGCA CTTTGGGAGG CCGAGGCCGG TGGATCACGA GGTCAGGAGA TCGAGACCAT | 30540 |
| CCTGGCTAAC ACGGCGAAC TCCATCTCTA CTAAAAATAC AAAAATTCA CTGGGCATGG | 30600 |
| TGGTGTGTGC CTGTAGTCCA AGCTACTCGG GAGGCTGAGG CAGGAGAACATC ACTTGAACCC | 30660 |
| GGGAGGCAGA GGTTGCAGTG AGCCGAGATC GCACCACTGC ACTCCAGCCT GTGAGACAGA | 30720 |
| GCAAGACTCA GTCAAAAAAA AAAAAAAA AGACTTTCCC AAAACTTATT CCACTCCCTA | 30780 |
| GATCCCAGGA TTTATTGCTT ATTTGGCTTA ATTTCTCACA GATGATTCA TGGGGCTAAG | 30840 |
| GAAAAAGCAA CAGGATCAGG GGCTGGAGCT GGCTCCAATG TTACACTGGG AGTATCTTA | 30900 |
| CGAAGGGTCA GTGTGATGCA GAGATGTGTA AATGTGTCGG AATAAGCTTC AGCTTATTAA | 30960 |
| CATAGCCTGC AAACAAGAGC AGTGGCTTAA CCTTCCCTGG TGGCAGGCTT CCCGTCCATT | 31020 |
| TAGCTTCTGT GGGAAATGGT ACCACGCTTT GTGGTGGAGT TTCCCTGTGC CCTGAATCTC | 31080 |
| TTTTACTACG ACAGTCTTT ATCTATGGAG AGAACATAAT CCAAAACATA ATACACAAAT | 31140 |

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| AATTTCCCCT | TGTTAATGTT | GCCTCCTCTT | AGCATCAGTA | AAAGTTTGA | CCCAACACAG | 31200 |
| CTCTATAACT | TACATTTAT | GGGGCACTAC | TGGTATGCTT | TTGGTTACAG | GATTGTTAAA | 31260 |
| AGGAAATCTG | GCTGTAAGTT | CCAGCTGTGT | GACCTAGAGC | TAGTCATTTA | AATTCTCTAA | 31320 |
| TCATTCATTT | CCTCATCTGT | TCAATAAAGA | TAAGGCTCCT | TTCTTAGTGC | AGCTGGAAGA | 31380 |
| ATTAAATGAA | AAATTGCATG | TACTTTATCA | AACCACAGAG | AAGCATGCGA | AGGTGAAGAG | 31440 |
| TGGTATTGCT | TGTAGCAGAC | CATAAGACAG | GACAATTAAA | CTAAGCTCAA | GAGCTAAGGA | 31500 |
| GGAAGGTTCC | AGAGCGGTCT | TTCCTTTCAT | TCTGATGGTG | TTTCTCTCCC | CTCTGTACCA | 31560 |
| CCAGAACAAAT | GTTCCATGTG | CCTTCGAACA | TGAAGGATGA | CATTACATAA | CACTAATATG | 31620 |
| TATTACATTT | AAAAGTTAA | AATGTTATT | CTCATGTTG | CTACACACAA | TGTGGACACT | 31680 |
| TGCTTGGACT | GACAAAGTCT | TCATATCACC | TAGAAAATTA | TAATGAACAG | GGACTAATTA | 31740 |
| CTACAATTGT | GAATAAATCC | AGCTATTGTG | ACAGGCAAAG | AGAATTCATG | GCTCTAAATA | 31800 |
| TGGACATGTT | TAATTTAATA | TTTGTATACT | AATCAAATTA | TCTTTGGGGA | TGCATACATT | 31860 |
| TGTTTCTTTT | AGGAAAAATC | CATATCCTAA | GAATATCATC | AATTTCCAT | TCATTCTCAA | 31920 |
| ATTGAAGCTT | CTATGACTTT | ATTTTTAAA | TTGCTTAAAA | TCCTTCAAGA | CATCTGAAAT | 31980 |
| TTCTGTGACT | TTAAAAAACAC | ATGTATCGGC | CGGGTGCAGT | GGCTCACACC | TGTAATCCCA | 32040 |
| GCACCTTGCG | AGACTGAGGT | GGGTGGATCA | CTTGAGGTCA | GGTGTTCGAG | ATCATCCTGG | 32100 |
| CCAACATGGT | GAAACCCCAT | CTCTACTAAA | AATACAAAAA | CAGCCGGGTG | TGGTGGCACA | 32160 |
| TGCCTGTAGA | CCCTGCTACT | AAGGAGGCTG | AGGCAGGATA | ATTGCTTGAA | CCCAAGAGGC | 32220 |
| AAAGGTTGCA | GTGAGCCAAG | ATCGTGCCAC | TGCACTACAG | CTTGGGGGAC | AGAGCAGGAA | 32280 |
| TCCGTCTCAA | AACAAACAAA | CAAAAAAACCA | CATATATCAA | ACCTCTATT | TATCATTCAA | 32340 |
| GGCTTTGCAC | TGTTTTGCA | CACAAAATT | AAAAGACTTG | TCCGTACTTT | AAAGATATT | 32400 |
| ATAATCTGTG | ACCTTAGGAT | GAAGGATTAT | AAAGAAAGGC | ATAGATGAAA | AATTGTGTCC | 32460 |
| AAAAATATCC | TTTGTAGTAT | TACTCATGAC | TGCATAATGT | TAGAGATAAA | TTAACCTAAT | 32520 |
| AATGAGAGTC | TGGCAAGTCA | ATTGATAGA | TTATTGTGAT | GGAAGCTATT | TTAAAATGTT | 32580 |
| TTCGACAATA | TTGAATTACA | TTAGAAAAAT | GCTAGTACTC | TAGTGTACAA | AGCAGGATAC | 32640 |
| GCTGTGCACA | TCCACATACA | GGAATAGAAA | CTGATTACA | CAAGTGCCAG | TAATGACTAT | 32700 |
| TTCTGGGTTA | CAAAACAGGA | TGATCACTTC | ATTCTTGAT | ACTTTCTATA | TTTACCAAGT | 32760 |
| GATTTTGTAA | ATAATTAGTA | GATACTCATT | TTATATTCA | AAGTAGCTAA | ATGTATTTAA | 32820 |
| AAGAGCAATA | ATTGGACTTC | ATCAGCATGG | CAAGTATAGT | TTTCTGCTTT | CCAAATATCT | 32880 |
| CTAGAATTCT | GGGAATAGTA | TCTCTCCATC | TAAATTTGA | ATTTGGGTG | TTGGAGATT | 32940 |
| TTATTGTTGT | TGTTGTTGTT | GTGTTGTACA | ATGGACCCAA | ATGGAGGCC | AATTGCTAGT | 33000 |

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| AAGATCAGGT CAGCACCAAGG ACAGATACTG GTTGGTTGCTC TGCCTTAGAA GGCTCCAAG | 33060 |
| TCTTGCTAAC ATCTGGATAT CAGGAGTTCA GCTCATTGCT CTACACTCAG ATCCTAGCTG | 33120 |
| AAGTCATCTG TGGTCAAACC CAGAGTTGG ACCATTTCT ATTTGATTC ACTTTTATG | 33180 |
| CAAGATCCCG TGGCTTGGCT GAAGGCAACT CTTTAACTGT ACATGCAGCT GCAATTACTT | 33240 |
| ACACTCCACT TAAAGCTTTC CCACCAACTT CTCCAATCTT ATAAACACTG AAAGCTGAAA | 33300 |
| GAGACTCAGA GATCCTCTGG CCCAACTGTT TATTTTATTG ATAAGAAAAT TTGCGTAGAA | 33360 |
| AATTTGAAAA GTTGCGCTGAA ACCACATGAT GCACAGAGCC AGCACCAGAT CCCCTAATGC | 33420 |
| CTAGACTACT GCTTGGTCTA CCTATTACAA CTTCCCCTTT GTTTTGTAA TATTTTAATC | 33480 |
| ACAAGCTTAA AACTCAATGG GGTAGCTCCA TTTTGAGGTA TTATAAAGGA GAATTGTAT | 33540 |
| ATTTTAAATC AAGTTTAAT CATTATTCT AGAAGGAAGT TTGATAATGA AAAATACTTT | 33600 |
| TAGGTTGAGC TTTGAATATT AACACATAAC ACAACAAAAC TACTTCTCCT TGCTCTTAT | 33660 |
| GTTACTGGAA TTGTATCACA AACCCATCAC TTTAGTTTT CTTCCCATTC TCTGTTGCTG | 33720 |
| TCTAACGAGA AAGGATGAAA AGCCCTACTT AAGTTTTATG GTTTCAAATG CTACTTTGAT | 33780 |
| TTTGTATCAA TAGGTAATTT CAGTTCTCG TTTCTTATTT TCCTTTGCAT GAGACGAATG | 33840 |
| CAGAAATCAG GCTAACATAC CAAACCATCC TAAACTGAGG TCTTTCATGG TAATGGGAAA | 33900 |
| TGTTTTCCA AAATAAGCAC AGAAGCTAAT AAAATTATGG AGGCTGAACA CTGGCATGGT | 33960 |
| TGATATGTAC TTAGAGACAC TCCAATAATT ATTAACCTAT TTGCAAACAA TTGAGAACAT | 34020 |
| GTAACAGTGT CAGAACCCCTT CCCTTAAGG AGATATACCT CTAAAAAAA ATTGTGAATT | 34080 |
| CTAGTGCCAA AGTTGTAAGT AGACACAGAA AAATGAATTG AAATTAAGTT AAAGGAAAAT | 34140 |
| GTTATATTAA AAAAATTAC TTGACACAGT ATAGGTTGAA TTTGAGAAA AAATAAATAA | 34200 |
| TGTAAATATT ATGGTATACG CATAAGCAA AAAACAGGTT TTTCCCTTT TTTAAGTCTA | 34260 |
| GAACTCATGA TTTTATTATA ATGGTCGTTA GATTGCTCTT AGATTCTCCT AATATCCAGC | 34320 |
| CTGTCTTGCT TCATCTCTGT TAGCCCAGAG TCCTAGTTA CTCAGAGTAA ATGTTACACC | 34380 |
| TAGATCAAAG AGCATGAACC TGCAGTGGGA GGATATTCAA GGACTGAATT CTGCTCTGCC | 34440 |
| ATTCCCAAAT TGAGTAAACC AGGTAAAGTT TCAAAACTC TTAGGGCTTT CACTGTTCA | 34500 |
| TAGGAAGAAT TGGGATAATG TTACTTCACT GGGCAGTTG GAGTGAAAAC AAAAGTATGA | 34560 |
| GACATGCCTC GTAAATTGCA AAGTGTATAA TGTTGTATAA TATTCTAGAT ACTAGCAACA | 34620 |
| GCAATAATAA TAAACAGTCA CAATATTGGC AGTCTAGCCC TCTCAGATCC ATAAATACAG | 34680 |
| GCCTACAGCA AATGAAATGT ATTTCTATAA AAGTGCCTTT GATTGGTTGT TAAATTGGTT | 34740 |
| TTAAATGTTT CTTTTTAAA GTGGATTCTT CTGGCCTGGA ATCCTCAAGA TGAGTGGGGA | 34800 |
| GGAGTTCACC AGAAAACATA GAAGCAATTG CTTCAGTGT AGAAAAACTG AGGGCCCTCT | 34860 |

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| CATCATCTGC CTATCTTCT GAGAAATTGG TGCTGACCAC AATGTCCCTG GGTGCCTTT | 34920 |
| CTTAGCTGTA CAATGAGGGC AACAAAGCTAG GTGATCTCTA CAAGCGTACA ATTTCCTTGC | 34980 |
| CTTCAGTCTT ATTCATAACT TTGGTCATGT TCTCCTTTTC TTTTATTATT ATTATTTTT | 35040 |
| TGAGACAGAG TCTTACTCTG TCACCTAGGC TGGAGTGCAG TGGTATGATC TCAACTACTG | 35100 |
| CAACCTCTAC GTCCCTGGTT CAAGCAATT CTCCTGCCTCA GCCTTCTGAA TAGCTGGCAC | 35160 |
| GCGCACTATG CATGCGCATA GGTGCACGCG CCGCTACGCC CTGCTAATTT TTGTATTTTT | 35220 |
| AGTGGAGACA GGGTTTCACC ATGTTGGCCA GGCTGGTCTC AAAACTCCTGA CCTCAAGTGA | 35280 |
| TCTGCCCGCC TCAGCCTGCC AAAGTGCTGG GATTACAGGC GTGAGCCACC AGGCCCCGGCC | 35340 |
| ATGTTCTCCT TTTCTGAGA GACCATTCA AATTCAATA GAAGTCTGAA AAGACTCGTT | 35400 |
| AGCCACAGTC CCAAACACAA ATCTTGTCAAG TTCTGATCAG TATTCATTC CACAGCCAAT | 35460 |
| CCCAGTCTGA CTAATCACAG CATCACAGTT AATACTCACA GCGTCCTTGG AGAAATGACC | 35520 |
| ATTGTCCACA GTGTCCATTG GTACCAAGTGG CTTCTCAAGC CTTGCCCTAG GGTCTTCATT | 35580 |
| GAATCAGTTA TCTTTTCAG AGAGTCTCTT CATTGGAA TTAGGCAATA TTACCAAGATG | 35640 |
| GAGATCCTTA TGTTGCTGTT AATGTCTTT CTCTGACTTC TCCTAAAAGT GTTCCCTCCC | 35700 |
| CTTAATGGAC CTTGGTAAG TTAGTAATAA TCCTTCTACC CAAAAAGAAC AAAAGCACTT | 35760 |
| ACCTTCACCA TTAAACCAAGT ATTTAAGCC CTAGACTATA AGGCTAACTT GGAAAAGGAG | 35820 |
| GGAGTTTCT GTCCCTCTT CCCTTCAAA TACTTTGCA GATTTTACA GGGATAAAATA | 35880 |
| GTGAGCCACG TGGCAGTCAG ACGGCAACAG GTTGGCCCC ACTTTCTCAG AAAGCCTCGG | 35940 |
| CTTGGTTTG CCGCTTAATT TTTAACTTCA TTTCAAGTT CTCACTGTTA GAGTATCTCA | 36000 |
| AAAGATGTCA TCGTGTGTT CTGCTTGAA CTGTGCATAC AACCAATTCAAG TCAACAAGCC | 36060 |
| TTTTTTCTG AAAGCAAGGG GGCAATGGGT GGAGGAAAGG GCAGGGCTCC TGAAATCAGT | 36120 |
| GATGGAGTCA GACCCATATT CACTCCTAG TGTTTCCCT GAGCTTGGAC AAGTCACTGA | 36180 |
| ACCTCTTGA ATTGGCTTCC GCTTTAGTAA AGCAAGGATT GTGTTACTGT ACTCATGGGG | 36240 |
| TTATTGAACA AATGAAATAC ATATTCTAAT TGGTAGTAGC TCCTCAATAA ATGAGGTGTT | 36300 |
| CATTCCTCTT CAGGAGTTCA GTTAAGTCAG CTAGATTTTC CATATGCATT TGGTGCCCAC | 36360 |
| AGCCTAATGA ATGTGAACGT TGACTGCCCT GGCAACTTCC CAGGAAGCTG CCTTGTACCC | 36420 |
| CTCCTTCCTG TTTCATATCA TCCATGTCTT CCCTAATCCA TTTTCTGCTT GGCTCCGAC | 36480 |
| TCTTGGAAATT GTGTCTTATT TGTAATCATT AATTTGAGA CTGTGGTTGC TATTGGATCT | 36540 |
| TCCTAGTGTG ACGCAACCCT TATAAAATGA AATGAGAGCC TTCCCTCTCT GGCTTATCAG | 36600 |
| CTTCAGACTT CCTTAATTGA GTTCCGCCAT CCTAGTGAGT CTCACCATAAC TCCCGAAATA | 36660 |
| ACCTGCTGGA GTAGGCTTAT CCTACTCAAC TCCTCAGATC TCTGTATTTA ATTCTATTTT | 36720 |

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| ATTGCTGTTG TAGTAAATTA CCACAACTGT GATGGCTTGA AACAAACACAA AATTATTTAT | 36780 |
| TTATTTACAA TTCTAAAGGT CAGAAGTCCA AAATGGGTTT CACTGAGCCA AAATCAAGGT | 36840 |
| ATTGGCAAGG TTGTGCCCCC TCCAGAGGCT TTAGGGAAA ATCCATTCT TTTCTTTTC | 36900 |
| AGCTTGTAGT GACCACTGCA TTTTTGGCT CTTGGCCTTT CCTCCACCTT AAAGCCAGCA | 37960 |
| GTGTAACATC TTGAAGTATT TTTCTTTAT TCTGACTCTT CTGCCTGTCT CTTATAAGGA | 37020 |
| CCCTTGTGAT TACACTAGGG CCCATCTGCA AAATTCAGGA AAATCTGCC ATCTCAAAT | 37080 |
| TCTTAACTTA TTAAACATGT AAAGTCCCTT TTGTCATATA AGGTAATATA TTTACAGGTT | 37140 |
| CTGGGGATTA GGACATGGAT ATCTTGAG GACAACATTC AGCCTACCTT TTTGAGGGAT | 37200 |
| AGAGGGTAG CAGGAAGAGT TGAAACAATT CCTTCCTTTC TTTATTAAA AATTCTGGTT | 37260 |
| ATTGATTTAT TATAGTTATC ATGTGCCTGA TAAGCCAATG AAAATAGTTA TAATGCCAG | 37320 |
| GGGCAGTGGC TCATGCCTGT AATCCCAGGA CTTTGGAGG CTGAGGCAGG AGAACATGCAT | 37380 |
| AAGCCCAGGA ATCCAAGACC AGCCTTAGCA ACATAGGGAG ATCCCGTCTC CACAAAAAA | 37440 |
| TGCAAAAATT AGCTTGATGT TGTGGCACAT GCCTATAGTC CCAGCTACTC AGGAGGATTG | 37500 |
| CTTGAGCCCT GGAGTTCAAG GCTGCAGTGA GCTGAGATTG CACCACTGCA CTCCAGCCTA | 37560 |
| GGCAATAGAG CAAGACCTG TCAGAAAGAA AAAGAAAGAA AGAAAGAAAG AAAGAAAGAA | 37620 |
| AGAAAGAAAG AAAGAGAGAG AGAGAAAGAA AGAAAGAGAA AGAGAGAAAG AAAGAAAGAG | 37680 |
| AGAAAGAGAA GAAAGGAGAA CTTTCTTGGC TTAATTTACC CAAAAGGTAT GATATTTCT | 37740 |
| TAATTTGCAT AAGGCAGAGC ATGAGCTGAT ACCAGTTCTG GTAGAAAAAG TAGGTGAGAC | 37800 |
| TGGATCCCCC AAACAAGAGT AAATATTAA TATAATAAGG AAAGAGTGGC CGAAAGTATT | 37860 |
| CAATGCCACA AGTAAGATTC AGAGTAGATT TTTCAAACGT CATAATTGT TTAAAAAGCA | 37920 |
| TAATTTATA GCTGGATTTC GCAAGCTCTC TGAGGGGATC TTGTTCATTT TGAGAATCAC | 37980 |
| TATATCCACA ATTCTTGGCA CAGTGTCTGT CCTATGGTGT GTGCTATGAT CCAAATGTCT | 38040 |
| GTATCCTCTC AAAACTCATG TTGAAATCCT AACCCACAAA GTGATAATAT TAGAAGGAGG | 38100 |
| GGTCTTGAGG CAGTAGTTAT ACCATGAGGG CAGAAACCTC ATCACTAGGA TTAGTGTCT | 38160 |
| TATAAAAGAA ACCCAAGGAA GTTTATTCAA CCCTCTGCC ATGTTAGGAC TCAGCAAAA | 38220 |
| GATGGCTACC TGTCTCACC AGACACTAAA TTTGCCAGGG CCTTAATCTT AGACTTCCC | 38280 |
| CCTCCAGAAC TGTAAGAAAT AAATTTTTG TTGTTTATAA GTCACCCAGT TTATGATATT | 38340 |
| TTGTTACAGC AGTCTGAACA GACTAAGACA GTACACGCTT AATAAACATT AGTTACTGA | 38400 |
| ATGAATGAAT TCTTGCATTG CTTCACCACCA ACAATCAAG ATCTCTGTAG CTGGTTAAC | 38460 |
| CCCCTCACTC CCAATCATGA TTTTCATATA ACAAAAGTTAA CTCAGTTAAA TCAACTCAAT | 38520 |
| AAGGTATACA TTAAATGAAA TTAAAGAAGT TGTAACATTT ATAAACATCA AGAGTAATGT | 38580 |

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| AGAAGAAAAG TCCAGAGATC CTTAAAAATT TAAGCCTCTC TGGCCTGACA TTAACAGCTA | 38640 |
| AGGCAGGAAC AGAAAACCAA ACACCTCATG TTCTCACTTA TGAGTGGGAG CTGAACAAATG | 38700 |
| AGAACATGTG GACACAGGGA GGGGAACAAAC ACTCACTGGG GCCTGTTGGG GGAGGATGGG | 38760 |
| GTGGGGGTGT GGGAGAACAT TAGGTAAAAG AGCTAATGCA TGCTGTACTT AATACCTAGG | 38820 |
| TGATGGGTG ATAGGTGCAG CAAATCACCA TGGCACACGT TTACCTATGT AACAAACCTG | 38880 |
| CACATCCTGT ACTTGTACCC AGGAACCTAA AAAATAATAA TTTTTTAAAA AACAGCTATT | 38940 |
| TCCAATCAGA GCAGTTCAAT TCCATACAAT TATTATTATT ATTATTATTA TTATTATTAT | 39000 |
| TATTATTTG AGATGGAGTC TCACTGTCGC CCAGGCTGGA GTGCAGTGGC ATGATCTCAG | 39060 |
| CTCATTGCAA TCTCTGCCCTC CCAGGTTCAA GTGATCCTCC CGCTTCAGCC TCCTGAGTAG | 39120 |
| CTGGGATTAC AGGTGGGCAC CACCACGCCT GGCTACTTTT TGTATTTTA GTAGAGATGA | 39180 |
| GGTTTCACCA TTTTGGCCAG GCTGGTCTTG AATTCTGAC CTCATGTGAT CCTCCTGCCT | 39240 |
| CGGCCTCCCA AAGTGCTGGG ATTACGGGCT TGATCCACTG CGCCCAGCCA ACATACTATA | 39300 |
| TTTTTTTTTG ATAAATTTC TGTATTCTAG ACATGACATT AGCTTCCGAC AATATTAATT | 39360 |
| TATTAAGATC TGACCCATGA CATGACTTCA TAAGAGTTCA GAGTCCACTG AATGAGACCA | 39420 |
| CACACAGAGA CAGACAACTA GAATGAAGGA TGATAAACAT GAACAATACA AACTTGCACA | 39480 |
| GGTGACTAGA AAAGAACAAA TGAAGACTCC TGCCAACTGG GGTTATCAGG GGAAGGCTTC | 39540 |
| CCAGGCAGAA CAGGGCTGCG CCAGTCTCCA TGTGTGGTAT GAATAAGTCA GTAATACAGG | 39600 |
| GGAAGCACCT TCCAGAAAGA GCAAACCCGT TGAGGCTTGG TGTGAGGAAT AAGAAGTGTC | 39660 |
| CAACATGACT GGGGATTAAA GTACAAAGGT ATAAAGGAAA TGTGGTGAAC TGACTGGAAA | 39720 |
| GATAAGAATT TTTTTAACCA GTTACTTTTC CCAATAGTAG AATTAACTAG ACAGGAATAG | 39780 |
| AAATGGAAGA AGTTTTATG TTCCCTTAGA ATGAAAACTA TACATTTTT AAGAATTATA | 39840 |
| TGAACAAGGA AAATGTGACT CAAAGGCAGA AAATGATAGA ATTTTATTAT AGGGCAGAAA | 39900 |
| ACAGGATCTG GCTAAATTAA ACTAAGTACT CTACTATACT ATACCATATG CTATATTCTT | 39960 |
| GAATGGGAGA AGTAATACCA TAAAAACTAT TGATTCTTCC TAAATTAGTA AACACATTGA | 40020 |
| GTGAAAATCC AAGAGGAAGA AAGAAAAATG GAAGACAAAC TGGAAATAGC CCAAATTTTC | 40080 |
| ATCAGTGGAA GACTGAGTAC TTTGTGATAC ATAGTCATTG CAGAAAATA ACACAGTTAA | 40140 |
| AAAGAATGAA TCACATCTAT AACATTTGAC CTGAATACTT TCATATAATG TAATACATT | 40200 |
| TTAAATGAGT AAAGCAGATA CTAAGGACGT ATAAAGGGAC TCCATTTTT TCTGAATATT | 40260 |
| AATCAAGAAA ATTCTATATA TCTGTATCTT TGTTTACATA AGATTGTGTG AGCCATAATA | 40320 |
| GCTGTTGACT TGGTTATCA GGTGTTGGTA AACAGTTAG TGGTAAAAAA AAGATGTGTA | 40380 |
| AGACTTGGCC GGGTGCAGTG GCTCACATCT GTAATCCCAG AACTTTGGGA ATCTGAGGCA | 40440 |

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| GGCAGATCAC TTGAGGTCAG GAGTTCCAGA CCAGCTTGGC CAACATGGTG AAACCTCGTC | 40500 |
| TCTATAAAAA AACTACAAAA ATTAGCCAGG CATGGTGGCG CACACCTGTA GTACCAGCTA | 40560 |
| CTCAGGAGGC TAAGGCAGGA GAACCGCTTG AACCCGGGAG GTCGAGGTTG CAGTGAGGTG | 40620 |
| AGATCGCGCT ACTGCACTAA GCCTGGCAA TGACAACAAA ACTCCGTCTC AAAAAAAA | 40680 |
| AAAAAAAGTG TAAGACTTAG CAAAAAGGTG ACCAAAAAAA AGCAACATTT ATAAACTATG | 40740 |
| GATGTAAAAC TCTATGTATG TGTGAGTGTG TATACATGTG TGAATATACA TAGGATACAT | 40800 |
| TTTTGTCTGT ATGTGTATAT GTACATACAT GCATGTATGT GTATGTGTG GTATATATAC | 40860 |
| AAGCTTTTT AAAATGTTT CAACAATATT GAATTACATT AGAAAAATGC TAGTACTGTA | 40920 |
| GTGTACAAAG CAGGATGCGT TGTGCACATC CACATACAGG AATAGAAACA GATATATACA | 40980 |
| TACACACACA CTACACACAC CCCTATACCT ACACCAAATA TACATTGAGA GAGAGAGATA | 41040 |
| GAGAAAATAG TAACTAAGGT AGTTAATTCT GGCCACAAAGG ATTTTAGAT GAATCTGACT | 41100 |
| TTCTTCCTTA GGTTTTTTT GTATTGTTA AAGTTTCACA CAAATAGCAT TTATTTACTG | 41160 |
| TATAATCATA AAAGGCAAAA ACCTATTTG ATTTTAGGAA AACACAAAGC ATCCAAACCA | 41220 |
| AAAATCTCAA CTTAGGAAAT AGCGGGAAAT CTAGGGAAGT CAACAGGACC AGGTGATGAC | 41280 |
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| AACAAATGTG TGTGGACGCA GAAATGGAAA TGACACAGCAG TGCACTGAGG TCACAGGAAA | 41400 |
| AATACAAAAAC AGTTTTCTG AAGTACTAAC TTCACTCAA ACTTCGGGAA ACATTTAAA | 41460 |
| AATGGTTTTA AACAAATTTG ACTAAATTTG ACAAAATTTAG TCAAATGCAA AATTTTCATT | 41520 |
| TTTAAAAGGA AATAAATTTT AGAGGAAAAA ACAGATGTGA AAAAGAATAC ATGAAATAGT | 41580 |
| ACATGAAGGA ATACATGCAC GTGGCATACA CTTGAATCCA TGTATATGCC AGGTTTCTT | 41640 |
| GTGTTGCACA CAAGACCAAC TCTGAAGTTA AAGATAACCC AGTAGAAAAA ATTAAATGAT | 41700 |
| GGGGAGTAAT TAAAATGTTT TCAGCAGGAG TAGGACATGA TTTTTATATT TAGACTGTTT | 41760 |
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| TACTAAGAAA CTCAACGTGG GGGTCATAGA ATGAAGCCAG ACTTTTGTTC CCAAGCAGGA | 41880 |
| GACAGATGCA GATAAGAGGG AATGAAGATG AAGTAAGGGC TGAACCACAG AAGCTTCGCA | 41940 |
| TCATAAGTCA TTGTATTTCT CTGAGTGAAC ATCATAGAAC TTATTTACTA TCTGGTCACA | 42000 |
| AAATGCCACT GACATGAAAA GAAATCGGGT TGAAATGGCT CTAGACCAAG ATTCCCAAGA | 42060 |
| CATCAAGAAA TCACCAAAAG TTGCCTCAGG TTCACAAAAA AAGATATTCC AAGGGAGTTC | 42120 |
| TCCAAGTAAG TAAACACTCA TTATTTCTAT AAGGCTTAGG CCACAAGACC TTGGCTGAGA | 42180 |
| CCCCTGTCTC TGTGATCTGG TCTGTACAC ATTGGAAGGG CCATGACTGA TTTCTACCTA | 42240 |
| GACATTTAAG GCTGAACGGA GGCTGAAGAA CCTCTTGCTT GCTTTCCCAT AGACTCACAT | 42300 |

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| CTGATAACAG CCCTCATCTT AGGCCAGA GGGCAAGAAG AGGTTAACAA GGATCAACCA | 42360 |
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| CACATAAAAG CTACTGTTGA AAAATAACAG AAGGAACAAC GTTTTATCTA ATCAATAGAT | 42480 |
| GGAACAAGAC AATAGAGGAC CATCTCAACA ATAACCTAGA ATACCATGGA AGACAGACAT | 42540 |
| AAATCATCTG TATTGTCCT GCTCAAGACT TGCCATATGC CAGGTATGGT GGCTTATACC | 42600 |
| TATAATCCA GAACCTTAG GCTAAGGCAG GAGAATTGCT TGAGCGCAGG AGTCCAGAC | 42660 |
| CAGCTTGTCT CTACAAAGTT CTCTGGGGT TTTTTTCGT TTGTTGTTT TTTAGGCAGG | 42720 |
| TGTGATGGCA CACACTGTG GTCCCAGCTA CTCAGGATGC TGAGGTGGGA GAACAGATTG | 42780 |
| ATTCTGGGAG GTCAAGGCTG CAGTGAGCTA TGATTGCTCC ACTGCACTCC ACCCTGGGTG | 42840 |
| ACAGGAACCTG CAGACAGCCT CTAGAAGTTG AATCAGCCTC TACCAAGAAG CTTCTACCGG | 42900 |
| TGCAAAGAAC TGAATTTTC AACAAACCTG AGGGAGCTTG GAAGTGGAAA TTTCCACAAT | 42960 |
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| AAGCAGGGAA CCCAGTTAAG CCATGTAGA ACTTCTATCC ACAGACCTTA GGTAATAATA | 43080 |
| AATGTGTGTT GCTTAAGCC ACTAAGTTT TGCTAATTG TTTGTAACA ATTATATATA | 43140 |
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| AAGACTATTG ATCTGCCCA GGTATCTGTT TGATGCCTGG ATATGCTGA ATTATTATTA | 43740 |
| TTGTTATTAT TATTATTTT TTTTAAATG GAGTCTTGCT CTGTCACCCA GGCTGGAGTG | 43800 |
| CAGTGGTGCG ATCTCAGCTC ACTACAACCT CTGCCTCCTG AGTTCAAGTG ATTGTCTCC | 43860 |
| CTCAGCCTCC CCAGTAGCTG GGATTACAGG TGCCTGGCAC CTCGCCAGC TAATTTTTT | 43920 |
| GTATTCTTAG TAGAGATGGG TTTTCACCAT GTTGGCCAGG CTGGTTTGA ACTCCTGACC | 43980 |
| TCAAGTGATC CACCCACCTC AGTCTCCAA AGTGTGGGA TTACAGGTAT GAGCCGCCAC | 44040 |
| ACCCAACCTT AGACCTCATC CTACCCAGCT CACGTGTCTT TTAATCCTT AGCTGAGGTT | 44100 |
| GTAGTTTAA CTTATTGCTG CTTGAACCTA TTTCAATGCA AAAGTTCTAA AAGAACTCAG | 44160 |

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| CCACCAAAAT TCCCTTGATT TGCTGCACTG TACCAAATAT TAGTCTTAAT GAAATACAAG | 44220 |
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| TACGCAGGAG ATTGGCAGTG GGTACATTCC CAGGGTCAGT GGTTTTATC CAGGAAGGAA | 44340 |
| CCTCAGAACATC ACCTGGGGAA TTTTAGCAAC ATACACACCA GTGTTCTCAG GAGTGAGGCT | 44400 |
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| CTCTGTCGCC CAGGTTGGAG TGCAGTGGCG CCATCTCGGC TCACTGCAAC CTCCACCTCA | 44640 |
| TGAACGTAGT TTTAACAGC ACTAGTGCCT AAACCAGACT CCAGAGATCA TGATCCCTAA | 44700 |
| TCCTATCCCT ACCCTGCGGT ACTCATTCTG AGATATGCC TGGTAATAA GAATTTAGA | 44760 |
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| GAGTTCATAT TTTCATAGA AAGCCGCTGC CCTCTTCTAA ATGTGAATGG AAGTTCTGGA | 44940 |
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| ACCAAACATA CCCCTGGGCC AATAAACAAA GCAGGAGCAA ATGTGTTGT GTGTGTATAA | 45120 |
| CTTCTACAC AAAATACAGA AAAAGTGTATC TCAATGTTCA GCATAAAATAA AATTTGTGT | 45180 |
| TTTAGTATTG TTTTATTC AAGTACATCT TGGTGAGAAT GCATTATTT GAACTGGATA | 45240 |
| AAAGCCCCCC ACTACTGAAT CCCAGGTCTC TCTATGAAGC CTGAATAGAG GCACTGTAAC | 45300 |
| TCTAATGGCC AAAGGGCTGG CCTGGAAATT CTCCCTTCAG CTGAAAAAG AGAAAAAGAA | 45360 |
| TAATCCAAGC AAACAAACAA AACAAAGAAA TGAGCAAACC ACTACAACAC AAAACCTTG | 45420 |
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| TGTGTGTGTG TGTGTGTGAG AGAGAGAGAG AGAGAGAGAG CACATGAGAG CACACACAAG | 45540 |
| ACCCCTATAGA GGAACCAAGT AGCTTATCTT CTTCCCTTGGAA TTCCTCTATC TCATAGCCTA | 45600 |
| GAAGACATGG GGTGATCCTA GCCCCTGGTA GTGTAGGACA AGGTAGAGTG GGACTGTGGT | 45660 |
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| GTGGATCACC TGAGGTCAAG AGTTGAGAC AAGCTTGACC AACATGCTGA AACCCCGTCT | 45780 |
| CTACTAAAAA TATAAAATT AGCTGGGCAT GGTGGCAGGC ACCTGTAATC TCAGCTACTC | 45840 |
| AGGAGTCTGA GGCAAGAGAA TCGCTAAC ACAGGAGGCA GAGTTGCAG TGAGCCAACA | 45900 |
| TCATGCCATT GCACTCCAGC CTGGGTGACA AGGGTGAAAC TCTGACTCAA AGTTAATTAG | 45960 |
| TTAATTAAAAA TAAATACCTT TTTTATTTGG GGCTGGGTGC AGTGGCTCAT GCCTATAATT | 46020 |

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|-------------|-------------|------------|-------------|-------------|-------------|-------|
| CTAGCACTTT | GGGAGGCCAA | AGTGGGAGGA | TCACTTGGGG | GCAGGAGTTT | GAGACTAGCC | 46080 |
| TGGGTGACAT | AGCAACATGC | CATCTCTACA | AAAATTAAA | AAATAAAAAT | TAGCTGAGTG | 46140 |
| CAGTGGTGCA | CACCTGAAGT | ACCAGCTACT | CATGAGCCTG | AGGTAGGGGG | AATTACTGGA | 46200 |
| GCCCAGGAAG | TTGAGGCTGC | AGTGAGCAAT | GATTGGCCA | CTGAGCTACA | GCCTGGTGAC | 46260 |
| AGAATAAGAT | GCTGTCTCTA | AAAACAAAAA | ACAAACAAAA | AAAACCCAAA | AACCTTCTTA | 46320 |
| TTTTAAAATG | ATTTCAAACA | TATAGAAAAA | TCAGAAAAAC | AGTACAAAGA | ACACTCATAT | 46380 |
| ACTTTTAC | TAGATTGTTA | ATATTATACA | TTTGCTTTT | CTCTACCTAT | CCATTTATTT | 46440 |
| ATATGTCTT | ATATCTCTT | ATATATATAT | ATACTTACTG | AAACATTGA | AAGTTGCAGA | 46500 |
| TAATCATCTT | CCTATATTAC | TCAATACCTT | ATCTTAAAT | TCAAATTCAA | ATTTTACAG | 46560 |
| CTGTCCCAAT | CATGTCTCTG | ACAACACTTT | TTCCCCCTCAA | TCCAGGATCA | CAAATTGCAT | 46620 |
| TTGGTTGCTA | TCTCTTTAGT | CTCTATTAAC | CTGGAACAGT | TTCCTGGCCT | TTCTTTATCT | 46680 |
| TTCATGATAT | GAAATGACAA | TGAATTTTA | AAGGTTAGGT | GTTTTGTAGA | TTAGTTCAGT | 46740 |
| TTTAAAACTT | CACAACAAAG | TGCCAAAGAT | GTCTTGGCAG | CAGTGCTCAA | AACAGGTTGG | 46800 |
| AGATGCATAG | GAGCCACAGA | GAAGGGTCTG | GTTCAAAGGC | CAGTGGTCGT | CTCATTACAG | 46860 |
| CACTGCTCCA | TCAGGTCTAG | GTCTGGAGAC | TTGGTAGCAC | GTCTATGGCC | CCAAAGTGTG | 46920 |
| TAGAGAATGT | TGAGAATTGC | CTAGGGTGGC | AGACTTAGAG | GAAGAAAGGT | TGGTATGAGG | 46980 |
| CCTGTCTAAA | ATTGAATTG | GCTATAGAGT | TATGGAAGGG | TTTTAGGCCA | TGTCTGGGTG | 47040 |
| GAATCAGATT | CAGTCAGCAA | GTAAGGGTC | TTTGGGAGGT | GAGCTTAGGC | TGTCTGGGCC | 47100 |
| CCTTCGAGGA | GGGCAGATT | TATGGGAAG | GGCTCTCCTA | GAAGAACCTA | GTTAGGATG | 47160 |
| AGCAAATCAC | GCAGGTTCAT | TCTCCACTTT | ACCCTAGCAC | TTCCTAGGCT | CAGTGGTGGT | 47220 |
| TTTGAACTTT | TCCCATTCCCT | GCAATTACTC | CATAAAGGGA | ATGTGCAAGG | AAGAGGGGAG | 47280 |
| GAAAGAGATG | TGAGTTCTGC | CAGAGGCTTC | ACTGTTCAT | TCCCAGATTT | ATTGAAACC | 47340 |
| AACCCTCCTC | CTGTACTTCA | TGCTCTCCAA | GCTCATGGTC | CTGGAACCTC | ACATTACAT | 47400 |
| AATACGGAAT | TTTTTTATT | ACCCTTGATC | TTTATGCATG | CAATCTTCT | GAACACCCCTG | 47460 |
| GACCCCCCTCC | TTCTCTTGGT | GACCTTTCC | TTCTCCAAA | CATGGTTCAC | CAGTTATTAC | 47520 |
| CTCTGCAGCA | GTGGTCCTTC | CAGGAGTTGC | TTGCTGCTT | GTTCTTCTCT | CAGCCTCAAC | 47580 |
| ACTTTTTCTT | ATCTTGTAC | AGCATTAGA | ATGTAATGTT | TTGTTTGTGTT | TTTAAAACAC | 47640 |
| ATCTTGGCTT | TCTGGAAACT | TATATAGAAA | ATAATTTTT | TTCCCTCAAT | AGATATATGG | 47700 |
| CTAGGGTCCA | GCCTAATGTC | TGCCATAGAG | AAGCCTAATG | TCCAGCCTAA | TGTCAATAAA | 47760 |
| TGTTTATTGT | GGGCATAAAAG | GAATACATT | TAAAATAATG | GAGTGTGTTAG | GTAAAATTAG | 47820 |
| GATTATTAGC | TTGAGTCATT | TAAAATCATC | CACAAGAAC | AGATCAAATG | TACATGTCTT | 47880 |

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| TAATACTGGT GAAAGAAGTA GTTACGCTGT CTTAAAGGCA AAACGATATG GACATAGCCA | 47940 |
| CCAGAAATAC AAGAGTGCCA TCTCTTGGTA AACCTGTTAG CAGACAGAGA AGACACTGAG | 48000 |
| AAGCCATGTA AAATATACTT GATAATGTGT CTCTTATGTA GGTTATGTAA AATGTGGAAG | 48060 |
| AAAGATGGAA ACAAAATTGA GAGACGTGGT TATGGCATT TCCAGGAAAA TTGGAAAATA | 48120 |
| TTTTCTCCTA ATAATTCACTG CAAAATGTAA TGATATTTTT TAATGCAGAA GAAAACAGTG | 48180 |
| TAACAAAAAG CATTATAATT ATGGCAAATT GTTGAATGCT TTCTCCACCC CTGCCCTTTC | 48240 |
| CACTCAGAGT AGGAATGAAA TAAGGATGTC AGTTATCACA CTTTATGTTA AATATTATAT | 48300 |
| GGGAGATGCT AGCCAGTGTA CTGTGGAAAG AAAAATAAAT GTTAATGTTA GATGTTAATG | 48360 |
| GTGTAAATAT TTCAATTGAA AGGCAAAGAT TGTTAGAAC CACTTAAAAA TGCAAGAACCC | 48420 |
| AAACACGTTG GCTAGAAGAG AAACATCTT AATATAAAAA CACAGATAAC TTGAGAATAA | 48480 |
| ACATATTAAA ATATATACAC TATGCAAACA GAAAGCATAA AAAGACTAAA ATGGCTATAA | 48540 |
| TAATAACAGC TAAAATAGAG TTTAAGACAG AGAGTGTAC CAGAGACAGA GTGATATTTT | 48600 |
| GTATTGTTAA AGGAGTCAGT TGCCAGCCTG GCCAACATAG AAAAACCCCA TCTCTACTAA | 48660 |
| AAATACAAAA ATTAGCCAGT CATGGTGGTA TGTGCCTGTA ATCCCAGCTA CTCGGGAGGC | 48720 |
| TGAGGCATGG GAATTGCTTG AACCCAGGAG GCGGAGGTTG CAGTGAGCCA AGATCACACC | 48780 |
| ACCGCATTCT ACCCTGGGTG ACAGAGTGAG ACTCTGTCTC AAAAAAATAA AATAAAATAA | 48840 |
| AAATGCCGAG GTGGGCGGAT CACCTGAGGT CAGAGGTTCG AGACCAGCCT GGCCAACGTG | 48900 |
| GTGAAACTCT GTCTCTAATA AAAATACAAA ATTAGTTGG CATGCTGGCA CATGCCTGTA | 48960 |
| ATCCCAGCTA CTTGGAGGCT GAGTCAGGAG ACTCGCTTGA ACCCAGGAGG TGGAGGTTGC | 49020 |
| AGTGAACCAA GATTGTGCCA CTGTACTCCA GCCTGGCAA CAGAGTGAGA CTCCATTCA | 49080 |
| GAAAAAACAA AAACAATGAC AATAGAAAAG TGTCATTCA TCAAGAAAAC ATAATAATCA | 49140 |
| TAAATGTATG ATTCTAACAA CAGAGTTCA AAATACATAA CGAAGTTTA AAATACATAG | 49200 |
| CAAAATGTCA TAACAGAGTT TCAAAATACA TAAAGTAAAA ATGGAAAAGA AAAGACAAAAA | 49260 |
| TAGACAATTTC TACAATCACA TTTGGAGAGT TTAACACCCT TTTTTGGTA ATGATGCAAT | 49320 |
| AACTAGACAA AATATCAGTA AAGACACAGA AGATCTGAAC AATCCTATCT ATTATCTTGA | 49380 |
| GCTAATTGAT TTATAGAACAA TTATACACAA TATCTGCATG CACATTTGC TCAAGTACAC | 49440 |
| ATGATATATA CATCATGATA GATCATATTG TTTTTTCTT TTATTTTAG TTGACATATA | 49500 |
| ATAACTGTAC ATATATACGG GATAAAGAGT GATATTTTA TATGTGTACA CAATGTGTAA | 49560 |
| TAATCAAATC AGAGTAATTA GTATATCCAT CACCTTAAAC ATTTATCATT TATTTGTTG | 49620 |
| TGAGTATTCA AAATTCTTTT CTAGCTTTT GAAAATATAC AATAAAATGAG AGTTAACCAT | 49680 |
| ATGCACCCCTA CAATGGTGCA GAACACCGGA ACTCATTCT ACAATCTAGC TGTAATTTG | 49740 |

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| TCACCATTAA CCAACCTCTC CCTATCCTCC CCTCCTTGCT ACCCTTCCC A | GCTTCCGGTA | 49800 |
| CCCACAGTTC TGTTCTCTAA ATCCATGAGC TAAAAAATTT TCTCTACTTT CACATATGAG | | 49860 |
| TGATAAACATG TAGTATTTAT CTTTCCAATC CTAGCTTATC TTACTTAACA TAATGTTCTC | | 49920 |
| CAGTTTCATC TACGTTGCCA CAAATGACAA GATTGCATTC TTCTCATGGC CAAATAGTAT | | 49980 |
| TTCATTGTGT ATATATGCCA CATTTCCTAT CCATTGTCT GTTAATGAAC ATTTAGGGTT | | 50040 |
| GACTCTATAT ATCAGCTCTT GTGAAGAGTG ACGCAATAAA CATGGGGATG TAGGTGTCTC | | 50100 |
| TTTGTATACT GATTCCCTTC CCTTTGGATA AATAGCCAGT AGCAGATTT CAGCCTCATC | | 50160 |
| TGGTAGATCT ATTTTAGGT TTCTGAGAAA CCTCTGTTGT CAGTAGGCTG GTTCAGATT | | 50220 |
| TTGAATTCCC TGCACAAAAG AATTGAAAG CCAGTCCAAA GTAAAAGTAG GCAAAGGAGT | | 50280 |
| TTATTGCAAG GTGAAAGTAC ACGCTGATAG CAGAGTCAGG GTCGGCTACT TCAGCACCAA | | 50340 |
| TTGACACTGA AGAAACTCCC GTTATGGAG TCCTACGTGA TTATCCATGA GGGGTGGGA | | 50400 |
| ATGGGCATTG TTGTTAAATA TGTTTGGGT GGTCTCTTGA ATGTGCATGC AATATTGCCA | | 50460 |
| TACACGCTAG TACATACATC ACATGTATTA TTAGCATTAA AATTCTCTAC CCAAGGGTGT | | 50520 |
| GTTCCTTACT ATTAAAATGA GTATATGTCA ACCTGAGAAC ACAGCTTGTG GGTTCTGCA | | 50580 |
| CTTGCACGAA CTTAGGGATT TTCCCTCCCTG CTCTTCTACC TCCTTGACTG AGGATATTCT | | 50640 |
| AACCACTAGC CCCAGATGCA GTTTGTGTAA TGTCAAGAGA TTGTTCTCT CCATCAATT | | 50700 |
| GACAAGTTTC TTGTTTCCTT TCAAGGGAGG CTGTGACCAC CCTATGTAAC CTACCTCACT | | 50760 |
| TCCATACTAT TTTGCATAAT GGCTATGCTA ATTGACATT CCACCAGTGG GACATAAGAG | | 50820 |
| TCCCCTCTTC TGTACATCCT CACCAGCATT TGTTATTTTG TGTTTTTTG ACAATAGCCA | | 50880 |
| TTCTAACTGG GGTGAGATGA TACCTTATTG TGGTTTGAT TTGCATTTC CTGATGATTA | | 50940 |
| GTTATTTATA TGTTTGGCT GTGTCCCTAC CCAAATCTCA TCTTGAATTG TAACTCCCAC | | 51000 |
| AATTCCCCTG TGTCCTGGGA GGAACCCAGT GGGAGGTGAC TGAATTATGG GCCGGGTCTT | | 51060 |
| TCCTATGCTG TTCTTATGAT AGTGAATGAG TCTCACGAGA TCTGATGGTT TTAAAAACGG | | 51120 |
| GAGTTCCCT GCACAAGCTC TCTCTTGCC TGCTGCCATC CATGTAAGAT GTGACTTGCT | | 51180 |
| CCTCCTTGCC TTCCACCATG ATTGTGAGAT CTCTCCAGCC ATGTGGAACT GTAAGTCCAT | | 51240 |
| TAAACCTCTT TCTCTGTAA ATTCCCCAGT CTCAGGTTAA GTCTTTATTA GCAGCATGAA | | 51300 |
| AACAGACTAA TACAGTGATG TTGAGCATTG TTTCATATAT TTGTTGGCCA ATTGTATGCC | | 51360 |
| TTCTTTGAG AAATGTCTGT TCAGTTCACT TGCCCACCTT TTAAATGAAT TGTTGGTTGT | | 51420 |
| GCACGGGTGG CTCGTGCCTA TAATCCCAGC ACTTTGGGTG GCTGAGGCAG GAGAACTGCT | | 51480 |
| TGGGACTAGG AGTTTGGGAC AACACCTGGGC AACACAGAAA GGCCCTGTCT CTAAAAAAAT | | 51540 |
| GAAAATAATA AAAATAAAATG AATTATTAAA TCTGACTACA GTAGAAATAA ATTTGAAATC | | 51600 |

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| AATAAAAATA AGAAATGTAG AAAAAAACAC ACATATTGG AAATTAAACA TCATTCTAAT | 51660 |
| TAATCAATCT CTCCAAACAA ATCACAAAAA ATTACAAAAT ACATTGTACT ATATAATAAT | 51720 |
| GACAATAAAG CACATCAAAA TTCATGGGAT GCAACTTAAA CAGTGTGTAG AGAGATCTGT | 51780 |
| AACTTAAATT GCTTATAGTA GAAAACAAAT AAAGTCTAAA ATGAAAGTCC AGATTCTACA | 51840 |
| AAGGTGGTAT GTCTAATAAG AGATACTTGT GTTCTCCCAG TAATACTGCG ATCCCAAAGG | 51900 |
| ATGATAAAAG TAAACTAGAA GTAATCCCCT CCTACTCTCT GGAAACTGCT AGAATGTTG | 51960 |
| CTCTGCTTCT CAGCAGAGCA AGGGATGTGA GAGAGGTGGG GAGAGACAGA GAGAGAGAGA | 52020 |
| GAGAGAGAGA GAGATCATCA ATCCTGATAA GTTGTAACCA CAAGCCAAC TTTATACACA | 52080 |
| TTTAGGCTAA AAAATAAAA GTCTGGCTA GCCACAGAGG CTCATGCCTG TAACCCCAGC | 52140 |
| ACTTTGGGAG ACCAAGGTGG GAGGATCACT TGAGCCAGG AGCTCGAGAC TGGCCTGGC | 52200 |
| AACAAAGTGA GCCCATCTC TAAAAAAAAT ATTTAAAAAA TTAGTCAGGC ATGGTGGCAC | 52260 |
| ACACCTGTAG TCCTAGCTAT ACAGAATGGT GAGGCAGAAG GATTGCTTGA GCTCAGTAGG | 52320 |
| TTGAGGCTGC AGTGAGCCAT GTTCACACCG CTGCACTCCA GCCTGGGTGA CAGAGTAGGA | 52380 |
| CTCTGCGTAA AAAAAAAA AAAAAAAA GTCTCAATTG ATGAATTGAG TTTAAAGTAA | 52440 |
| TACTTGACTG GTGGTACCCC AGCTTCCCTGG CAAAAGCAGA CACAAACCCC CTCTAGAAGA | 52500 |
| AAGAACATCC CAGTCCTCAG TGACCCATAA GTAATTTAC CAGAAAATA AAGAAGTTAC | 52560 |
| TGGCAAAATC ATCAAATGCA CAAAATGGAT TGGAGGAAGC GTAGCAAGAA TAAATGAAGA | 52620 |
| GGAGCTGGGT GCTGTGGCTC ACGCCTGTAA TCCCAGCACT TTGGGAGGCT GAGGTCAGGC | 52680 |
| TTTGAGACC AACCTGGCCA ACATGGAAA ACCCCGTCTC TACTAAAAT ATAATAATTA | 52740 |
| GCTGGGCATG GTGGCATGTG CCTATAGTCC CAGCTACTTG GGAGGCCTGA GGCAGGAGAA | 52800 |
| TCGCTTGAAC CCGAGAGGTA GAGGCTGCAG TGAGCCTAGA TGGTGCCACT GCACTCCAGC | 52860 |
| CTGGGCAACA GAGTCAGACT CTGTCTCAA AATAAATAAA TAAATAAATA AATAAATAAA | 52920 |
| TAAATAAATA AATAAATAGG GATCAGGAGG TTTGAGTAA TAAGGTTAAA AGTGATGGTG | 52980 |
| TTCTAGACTA TTTGTGTCTT TATATTAAAG TGAATTTTT GTAGGCAGCA TGTTGTGGCT | 53040 |
| CTTTTTTGC TTTTTTTGT TGTTGTCTGT TTTTTAATT CAATCTGACA ACCTCTGCTT | 53100 |
| TTGTATTAGA GTATTTAGAT CATTACCTT AAGTGTGATA ATCTATATGG GTAGAGTTAA | 53160 |
| GTCTATCATC TTGCTATTAC TTTCCCATT GTCCCATCTG TTCTTGTTC TCTTTTCCT | 53220 |
| CTTTTTTTTC CCATCTGTTG AACAACTTAA ATATTTTTTC TCATTCTATT TTATTTCTTT | 53280 |
| TTGTGGCTTG TTAGGCATAA TTCTTCGTTT CATTATTCA GTGGTTGCCT TAGAGTTAT | 53340 |
| AGTATACATC ATTAATTAT CGTAGTTCAT CTAAAAGTAT ACCACTTATA TAAAATAACA | 53400 |
| TTATTTTCAT TTCCACTTCT TTTGCACTGT TGTTGTCATA CACTTTCTT TTGTGTGTGT | 53460 |

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| GTGTGTGTG | GACAGAGTCT AGCTCTGTT CCTAGGCTGG AGCACAGTGG TATAATTTG | 53520 |
| CCTCACTGCA | ACTTCCACCT CCTGGATTCA AGTGATTCTT GTGCCTCAGC CTCCAGAGTA | 53580 |
| GCTGGGATTA | CAGCGTGCA CCACCACGCC TGGTTAATT TTGTATTTT AGTAGAGATG | 53640 |
| GGGTTTGCC | ATGTTAGCCA GGCTGGCTT GAACTCCTGT CCTCAAGTGA TCTGCACGCC | 53700 |
| TCGGCCTCCA | AAAGTGCTGG GATTACAGGC ACGAACCTTT GTGCCGGCC TGTTTACTT | 53760 |
| TTAAATGCTA | TAAATCACAC ATTACATTGT TAACTATTT TGTAAAATA GTCAACCACA | 53820 |
| TTTTATGGAG | AAAAAAATATT ATCTGTTAC TCACATAGTT ACAATTTCT AGTACTGTTT | 53880 |
| ATTCCTTGT | ATAAAATAGGA ATTTCAATAT GCCTAAGGGA CTTTTATCAT TCTGCCTAAA | 53940 |
| GGACTTTAA | AAAATTTTT TTATTGTTCT AGTCTGCTGA TTAGATGTTT ATTGCCTTTA | 54000 |
| GGCAGGGAGA | TAAAAAAATA CTACAATATT TTAGTTAATG ACTGTGTCAA TCAAAAGAA | 54060 |
| GCAAGACAAT | CTACCATTAA ATTGCACGGT TGATTTTTA AATGAAATAG AAAACATCCA | 54120 |
| CATATACAGT | ACAAAATGTA TCATAAAACT CTCACATATG ACTAGATAAA TTCCTTCCTC | 54180 |
| TTTCTCTGT | ATTAAAATTGT CTTATTCAC CCTCATTG GGGGAGTTTT TTTGCTTGGT | 54240 |
| ACAGAATTGT | AGGTCTTCA TTAATCTAAA AAATTTGCT CCACTGTCTT TTTGCTTATA | 54300 |
| TTGTGTCTAT | GAGAAATATG TGATCTATAC ACTTGTCTT CTGTACATAA TGTGCCTTTT | 54360 |
| GTTCTGGCT | GCTTGAAAT TTTCATTT CCTCTTGCTT GCTTGGGTT TGATTTGTT | 54420 |
| TTATTTTCT | AGTTCTTTT TTTTTTTAA TTTTGAGACG GAGTCTCGCT CTGTCTCCCA | 54480 |
| GGCTGGAATG | CAGTGGCGCG ATCTCAGCTC ACTGCAATCT CTGCCTCCTG GGTTCAAGTG | 54540 |
| ATTCTCCTGC | CTCAGTGTCC CGAGTAGCTG GGACTACAGG CAGATGCCAC CAGGCCTGGC | 54600 |
| TAATTTTGT | ATTTGTTAG TAGAGACAGG GTTTCACCAG GTGGTCAGG CTGGTCTCAA | 54660 |
| ACTCCTGACC | TCGTGATCTG TCCGCCTTGG CCTCCCAAAG TGCTGGGATT ACAGGCGTGA | 54720 |
| GCCATCACGC | CCAGCCTAGT TATTGATTTC TATCTTCATT CCACTTGGT CAGAGAATAT | 54780 |
| ATACTCTATT | ATTATAGTCC TTTTACATTT ATTGAGACTT ATTCATGAA GTAATATACA | 54840 |
| GTCTATCCTG | AAAAATGTTT CATGTGAGCT TCAGAAGGAT GTTATTCTG CTGTTTGGG | 54900 |
| GTGTAGTGAC | CTATAGATTT ATGTTAGGGT CAGGTTAGGT GTTTCAAGT GTTAAGTCTT | 54960 |
| CTATTTTTT | GTTGATCTTG TCTAACTAGT GAGGTATTGA TGTCTCCAC TATTATTGTC | 55020 |
| GAATTTCTA | TTCTCCCTT CAATTCTGTC AGTTTGTCTT CATGAATATT AGGGCTCTGT | 55080 |
| TGTTAGGTGC | ATGTATGTT ATAATGTTAT GTTTCTTGA TGAATTGACA CTTTATCAT | 55140 |
| TACAAAATAC | CTTTCTTAT TTATTATAAC AATGCTTATC TTAAAGTTA TTTGTCTGA | 55200 |
| TATTAGTATA | CCTACTCCAG ACATCTTTG AGTACTATTT GTATGTGATG AATTGTTCC | 55260 |
| TTCTTTCTGC | TCTCAAGATT CATCTTCTTC ATCTTTGAT AATCTGATTA TGATGTGTCT | 55320 |

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| AGGTATGGAT CTCTTGAGT GTATCCTACT TGGAATTCAT TGAGCTCCTA AAATATGTAT | 55380 |
| GCAAGTTAAT GCTTTTTGC CAAACATGGG AAGCTTGAG AAATTATTC TCCAAACATT | 55440 |
| CTCTCTCCCT GTCCTCTCAC TTTTCTCCTT CTAGGAGTCC CATTATGCAT ATATTAGTAT | 55500 |
| GCTTGATGGT ATCCCCGTGTC TCTAAGGCTC TATTCTTT TCTTCATTCT GTCTTCTTTC | 55560 |
| TGTTTTTCAG AGTAGATCAT TTCAATTGAC CTATCTTGA GTTCACTGAT TACTTCTTT | 55620 |
| TGCTGCTCAA ATTTGCTGTT AAAGCCCTCT AGTAATTTTT TTTTCTTACA GATGAGATAT | 55680 |
| CATGCTGTCG TTCAGGCTGG AGTGACCAGT ATCCTCTTAC TGGGATCACA GATCACGCAT | 55740 |
| GCTCCAGTCT GAGCAGCAGC ATGAGCTCCA GCTTGCTCCA GCCTGAACAG CAGCAATACA | 55800 |
| TTCTTTCACA CACAAAAGGG TTATTGGATC TCACACAAGA AGGAATTGG GGCTAGTCCA | 55860 |
| TACAGTAAAG TGAAAACAAG TTTATTAAGA AAGTAAAGAA GGGCCGAGCG CAGTGATTAA | 55920 |
| TGCCTGTAAT CACAGCACTT TGGGAGGCTG AGGCAGGCAG ACCACTTGAG GTTAGGAGTT | 55980 |
| CGAGACAAGC CTGACAAACA TGGCAAGACA CTGCTCTAC TAAAAATACA AAATTAGCTG | 56040 |
| GGTGTAGTGG CACATGTCTG TAGTCCCAGC TCCTCAGGAG ACTGAGGCAG AAGAATCGCT | 56100 |
| TGAACCCAGG AGGCAGAGGT TGCAGTGAAC CAAGATCGCA CCACTGCAC CCAGCCTCTA | 56160 |
| GCCTGGGTGA CAGAGTGAGA CTCTGTCTCA AAAAAACAAA AAAAAGTTAA GAAATAAAAG | 56220 |
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| TGGATCGCTT GAGGCCAGGA GTTCGAGACC AGCCTGGCCA ACATGGCGAA ACCCCATCTC | 56340 |
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| GGAGGCTGAG GCAGGAGAAT TGCTTGAACC CGGGAGGTGA AGGTTGCAGT GAGCCAAAC | 56460 |
| ACGTCACTGC ACTCCAGACT CCAGCCTGAG TGACAGAGCG AGTCTTTATC TAAAAAATAA | 56520 |
| AAATAAAAGA AAAGAATGGC TACTCCATAG GCAGAGCAGC AGTATGGACT GCTCAAATAA | 56580 |
| GCAGACGTAT AGTTATTCT GGATTATGTG CTAAACTAAT GGATTATTCA AGAATTTC | 56640 |
| AGGAAAGAGG TGGACAATTG CCAGAACTAA GGGTTCTTCC CCGTTTTAGA CCATATAAGG | 56700 |
| TAACGTCCAG ATGTTGTCAT GGTATTTGTA AACTGTCGTG GCACTGGTGG GAGTGTCTTG | 56760 |
| TAGCATGCTA ATGCAGTATA ATTAGTGTAT ATGAGCAGTG AGGATGACAA GAGGTCACCT | 56820 |
| TTGTGGCCAT GTTGGTTTG GTGGGCTTTA GCTGGCTTCT TTACCGTTAC CTATTTCATC | 56880 |
| AGCAAGGTCT TTGTGACGGG TACCTTGTGC AACCTTCTAT CTCATCCTGT GACTAAACTC | 56940 |
| CTGGTTAGAA TGCCTAACCT AACCCAGCAG GCCTCAGCCT TATTTTACCC AGCCCCTATT | 57000 |
| CAAGATGGAG TCACTCTGAT TCAAATGCCT CTGACATATT TTCCCACCTCC CTTTTACCA | 57060 |
| GGAAACCTTA ATCCTAAGGA TTGCAGTGGG ATAAAGATCC GTCTTCTATA ACTTCTTCAG | 57120 |
| ACTAAATAGG GGCAATGATA TTCCTGTCTA ATTATTAGGG TCTCTTGTGT CCAGGGTAGA | 57180 |

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| GAGGAGCTCA | GTCACAAAGT | GTCAGTATGG | TGAGACATTC | ATAACTCTGA | GGCTTCCCAA | 57240 |
| AGTGTGAGA | TTACAGGCAGT | GAGCCACTGT | GCCTGGCCAG | GGTCCCATT | TTATACCAGA | 57300 |
| TCCTGGATCC | CAAAAGAGGG | AATCAGCCCT | CTTTGGGGG | ATCAGCCATC | TCCCCCTGGGA | 57360 |
| ATCTTATCTC | TCGGTGGGG | TGGAGACATT | TCCATACCTT | CTAGGTAGTC | AAGAGAATGC | 57420 |
| TTCTTGTGAT | CCAAAAGTGC | AAATAGCAA | GTATTCACCT | ATATTTGCCT | TTAGCTATCC | 57480 |
| CCAGAAGTAT | ATTTCCTACC | TGGTTATTAC | ACACCAGATC | TCCCTCATAA | TGCAAAGTAA | 57540 |
| TTTCTGATAC | CCCCAAAAGT | CAAAAACATC | AGATAACATA | ATGCAAAGCC | AAACAGAGCC | 57600 |
| TTAGATTTG | CGAAGGATCT | ATCCACTTCC | AGTTCCTGGG | GTTTCATGAG | GAAAACAGAG | 57660 |
| GTTCCTCCAA | AATGGGGTCT | GTGGTGCCTC | CTCTGTTTT | CCCAAGGAGT | CCCAGGCTTT | 57720 |
| TAGAGATTGA | ATATCCACTT | TTAATTAAGC | TTTAACCAT | AAACCATAGC | ACTCTAAAGC | 57780 |
| AAAAAAAAGA | GGAGTCCTTT | TAAGTTCTT | ATTACTAAC | TTTAGCCATC | CCACACGGCC | 57840 |
| ATTATTTCTG | GCTTTGAAC | TTTACCAAAG | ATAATCTCCC | AGGTTCTCAG | AGAGAGGAAA | 57900 |
| ACTCAAGACA | GTGTGTGGAG | GGGAAGAGAA | CAGAATCAAC | AAATGGTAAA | GGTCACACAG | 57960 |
| ATATCAATCA | GAAAGTACTC | ATTCCCTAAG | CCAGGATTGA | ACCTTGGCCG | CCATTATAAA | 58020 |
| ATGACAAATC | CTTAGCTGCT | GAGCTACAAAC | ACTGGTTAGT | TTCCATTGCC | CTTCCCAGAA | 58080 |
| GGGGTCCAGA | GCAGCCAATT | TTGAGCTTGC | AATGGCTTGA | GATAATT | TTT AGAGTTAACT | 58140 |
| ATTACATAAA | CCCCAAAATT | CCTGTTCCCT | GGATGGCAGA | GACCAAGAGA | AAGTACCGCC | 58200 |
| ACGTGGTTAC | AAGGTGAAGC | TCCAAAGGAC | ATAAAACAAG | ATGAGAAGGA | AACTTCATCC | 58260 |
| AGTTTTTATT | TTTTTTTTT | TCCAGGGACC | TGTAATAAAC | TTTGCAACGG | ACCAGTTAC | 58320 |
| TGGGCTGGCT | TGAACAGCAG | GCTTATGGAG | TCCTGAGCCC | ATGTTCTATC | CTACCATATT | 58380 |
| CCTCTTTATG | ACAGAGTAAT | ACAGAAAGAC | AAATTGATAT | CACAAAGTAT | ACCAGATTCA | 58440 |
| TTACAGCTTA | AGACTAGCCC | CACAAATCCT | TGTTCCCATT | AATCAAAC | TTACAGAGGT | 58500 |
| GATAAACAGT | GATTTTACC | ATTCAATTCA | TTTCACTAA | GAGAGAGAGG | CCAGAAGCCT | 58560 |
| GACTGGTAAG | AAATCTTAC | CCTTTGCTG | GCATGCCAGG | TTTCTGGGTT | CTCTTCACT | 58620 |
| GAGCAGCACT | AGCAACCTTG | CTCACTGCAA | AGCCCTGGG | TCCAAGCTAC | GACACAAAAG | 58680 |
| AAAACCAACT | TTTTCTGTT | TCATGGAACC | ACAGGCAAAT | AAATGTCTCT | CACTTTGTA | 58740 |
| AGATGCTGCC | CAATGGCCAC | ATAAAAGTAAC | CAAATTAACG | TTTCCATT | CAGCCAGAGC | 58800 |
| AATATACATG | TGACAAAACA | TAGACATTGG | CCACTCCACT | TAGCACCCAA | TATCTAACTG | 58860 |
| GGAAGGCTCA | AACTGCC | CAGATAGGCC | CTTCATCTT | TAATCAAAC | TCTGACCAGG | 58920 |
| AGTTCAACA | TATGGTCTCT | GGGCAAGATG | GTTGTCTCAA | GTAACAGAAA | AGACAGAAAA | 58980 |
| GAGAAAAGAG | AGAAAGGGAG | AAAAGCATTG | CCTGTGGTGA | GATGGGGAAG | GTGAGGAGTT | 59040 |

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| CACAGAGGCC AGAGAAAGAC CCACCCATTG CAGCAACACT GAATCAAAG TTCAGGCAGC | 59100 |
| TGCTTGTCA AGCAAAGGG A TCTTTCCAA CAGTCCTATC AGCTGTCAAG CTTCCCTTT | 59160 |
| TGGAGAGAAG AAAAGTTCCC AATGTCCCGT GATCCTGTAC ATGCCTAAC CTGTCACCCA | 59220 |
| TAGCTGTCA G CAAAGAGCAC AGGGAAGATT AATACAAACA GAATAGCAGT TAACATCCCC | 59280 |
| TAATGCTAAA TCCGTTTTA ACCAAGAGAG ACTTTACTGA GAGGGGCCTC TAACCCCTTA | 59340 |
| AATCTTAAGG ACTGTAGCCT TCCTAAGTTG GGTCTCAAAC CCAAGTTCGG TCAAGCATTG | 59400 |
| TTGCCCTTTA TTAAGAGCGG ACTGAAACCC TCTCTGTCTT AGGAGAGACC CTATCTCCCC | 59460 |
| TAAGTTGCAC CTCTAACCCA ATCCTATCCT TTACCCGGGG ACTCCACAC TTACCCAAAG | 59520 |
| TCAGCCAGTT GGTGCTGTAG TCTGTTCTT TTGGCTTCAG AGTCTCCTCA GTATTGTCCC | 59580 |
| TTCGTGGTCA CAGAAAGATT TACCAAGAA- GGGTCTTGAT CCAGACCCCA AGAGAGGGTT | 59640 |
| CTTGGATCTC ACACAAGAAA GAATTAGGG CAAGTCCATA CAGTAAAGTG AAAGCAGGTT | 59700 |
| TATTAAGAAA GTAAGGAAAT AAAAGAATGG CTACTCTGTA GGCAGAACAG CAGCGTGGTC | 59760 |
| TGCTCAAATA AGCATACTTA TAGTTATTTC TGGATTATGT GCTAAACAAG GGGTGGATTA | 59820 |
| TTCATGAGCA TTCCAAAAAA GGGGTGGACA ATTCCAAAAA TTGAGGGTTC CTCCACCTTT | 59880 |
| TAGACCATAT AAGGTAAAGT CCAGATATTG CCGCAGTATT TGTAAGCTGT CATGATGCTG | 59940 |
| G TAGGAGTGT CTTTAGCAT GTTAATACAT TATAATTAAC ATATAATGAG CAGTGAAGAC | 60000 |
| AACCAGAGGT CCCTTTGGTG GCCATGTTGG TTTTGATGGG TTTTGGCCAA CTTCTTTACC | 60060 |
| ACAACCTATT TTATCAGCAA GGTCTTGTG ATGTGTACCT TGTGCTGACT TCCTATCTCA | 60120 |
| TCCTGTGACT AAGAATGCCT AACATACTGG AAATGCAGCC TAGCAGGTGT CAGCCTTATT | 60180 |
| TTATCCAGCG CCTATTCAAG ATAGAGTCAT TCTGGTTCAA ATGCCTCTGA CAATGCAGCC | 60240 |
| TTGAATTCTT GGGCTGAAGC CATCTTCCA CTTCAGCCTC CTGAGTAGCA GGGACTACAG | 60300 |
| GCACACACCA TCATGCCTGG CTAATTTTT TGTATTTTT TTTTTAGAGA TGGGGTCTCA | 60360 |
| CTGTGTTGCC CAGGCTGGTC TTGAGCTCCT AGGCTAAAGC AATCCTCCTG TGTCACTCTC | 60420 |
| CCAAAGTGTGTT GGGCTGTCA GAGGTATTG AACAAAGAAAG ACTCCATCTT GAATAGGAGC | 60480 |
| TGGGTGAAAT AAGGCTGAGT CCTGCTGGC TGCATTCCCT GTAAGTTAGG CATTGTAAGC | 60540 |
| CACAGGATGA GGCAGGCAGT GGGCACAAAA TACAGGTCA AAAGACCTTG CTGATAAAAC | 60600 |
| AGGTTGCAGT AAAGAAGCCG GCTAGGCCAG GTGGGGTGGC TCACACCTAT AAGCCCAGCA | 60660 |
| CTTTGGGAGG CTAAGGTGGC TGGATGGCTT GAGCGCAGGA GTTGGAGATC AGCGTAGGCA | 60720 |
| ACATGGCGAA ACCCGGTCTC TATTAATAAT ATAAAAAATT AGCTGGGTGT GGTGGCACAT | 60780 |
| GCCTGTAATC CCAGCTACTT GGGAGGCTGA GGCACGAGAA TCGCTTGAAC TCAGAAATTG | 60840 |
| GAGGTTTCAG TGAGCTGAGA TCGTGCCACT GCACTCCAGC CTGGGCAAAA AAAAAAAAGA | 60900 |

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| AAAAAGTAAA | GAAGCTGGCT | AAACCCACC | AAATCCAAGA | TGGCGATGAG | AGTGACCTCT | 60960 |
| GGTCATCCTC | ACTGCTCCCC | ACCAAATCCA | AGATGGCGAT | GAGAGTGACC | TCTGGTCGTC | 61020 |
| CTCACTGCTA | TGCTCATACC | AGGCCACGA | CAGTTACGA | ATGCCATGGC | AACGTCAGGA | 61080 |
| AGTTACTTTA | TATGGTCTAA | AAAATGGAGG | CATGAATTAT | CCACCCCTTG | TTTAGCACAT | 61140 |
| AATCAAGAAA | TAACCATAAA | AATGAGCGAC | CAGCAGCCCT | CAGAGCTGCT | CTGCCTATGG | 61200 |
| AGTAGCCGTT | CTTTTATTCC | TCTACTTCT | TAATAAACCT | GCTTTCACTT | TACAGACTCG | 61260 |
| CCCGAATTCT | TTCTTGTGTG | AGATCCAAGA | ACCCTCTCTT | GGGGTCTGGA | TCTGGACGGA | 61320 |
| CCCCTTCCG | GTAACAGGAT | TACAGGTGTG | AGTGAGCCAC | CATCCCCAGC | CTTAGTAAAT | 61380 |
| TTTTATTCA | GTTATTATAT | ATTTTATTAT | ATTTCTGTT | TTTCAGTTAT | TATATTGAA | 61440 |
| ACTCCAGAAT | TTTTATTAG | AATGTATTAA | CAAATCAGGA | GTACTGGCAT | AAGCCTGGCA | 61500 |
| CAAAGCAAAT | GTTGACATAG | GTCTGGCACA | AAACAAGTGT | TCAATGCATT | TTAGCTACCT | 61560 |
| TTAAGTGTAT | TATTACTAGC | TGCTTCTGGG | GCTATCCGGG | GAAAATTATC | CTTGCAAAAC | 61620 |
| CCCCACTCAC | TTCCAGAGCA | GGCTTCAGTG | AAGCAGTCAT | CTGTGTATG | ACAAGAGCCA | 61680 |
| AACTCTGTAA | AACATTGAA | GAGATTATT | CTGAGCCAAA | TTTGAGTGAC | CATGGCCCAT | 61740 |
| GACACAGCCC | TCAGGAGGTC | CTGAGAACAA | GCGCTCAAGG | TGGTTGGGAT | GCACCTTGGC | 61800 |
| TTTATACATT | TTAGGGAGGC | ATGGGACATC | AATCAAATAC | GTTTAAGAAA | TGTACACTGG | 61860 |
| TTTGGTCCAG | AGAGGCAGGA | CAACTGGAAG | CAGCGGAGGA | GTGGGGTGG | GGTGTGACA | 61920 |
| ATTGGTTGAG | TTTGATAAA | GATTTGGGAT | TAATAGAAAG | GAGCACTAGG | TTGTGATAAC | 61980 |
| AGGTTGTGAA | GACCAAAGTT | GTACTATGGG | ATGAAGTTTT | TAGCTAGCAG | GCTTCAGAGA | 62040 |
| GAATAGGTTG | TAAAATGTT | TTATCAGACT | TAAAAGCTGT | GTTGATGTTA | ATGCCAGAGA | 62100 |
| GGAATAATGA | GGCATGTTCA | ACCCCCACTT | CCCTTAATGG | CCTGAGCCAG | TCTTCAGGT | 62160 |
| TACATTTAA | GAAGCCTGAC | TGAAGAGAAA | GTCTATTCA | ATGGTTGGGG | GCTTTAGAAT | 62220 |
| TTTATTTTG | TTTATACCT | TTGCCCTTGG | AAGTTTGCT | GAAAAATGAA | CACAAAAAAA | 62280 |
| GGCAGATTCA | TAAGATAAAA | GGCTTACAA | TTAATTACT | CTGTGGTTCT | CCTCATGCAC | 62340 |
| ATAGTACCAA | TATCCCAGTG | GAATTTAGAA | GCTTATATGC | CACCTTGAAG | TTGAAGAAAT | 62400 |
| AACAGGGCT | TGATCCTTGC | AAAATAGTT | ATGGAAACA | GAAGAAGAGG | AATTCTGTTG | 62460 |
| AGGGGCAATA | TGTAACCTACC | AGGAGAGACT | AATTGGATCA | AAGAACAGAT | AAATTTGTAA | 62520 |
| ATAGTTCTCC | TTGGAATTAA | AATGATGCTT | AGAGACTGAT | TATCTTATAA | AAGGGTCTGT | 62580 |
| TCAGGTGTGG | TTACATTCTT | GGTCTTCCCT | ATAATGCACA | ATGAGATAAC | AGAGAGGGAG | 62640 |
| AAAAGAACAA | TTGTTCTCGC | TGGTGGGGCC | ATCCTATTAA | TATGTACCTA | GGGAAAAGTC | 62700 |
| TCTTTAGTGT | CTGTTGATCT | CTAAGAGTTT | TTCATTCAAA | ATACTCATTA | TATCAGGAAG | 62760 |

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|------------|------------|------------|------------|------------|------------|-------|
| CCACATTTG | GGGTGAAATT | CACTACTCCC | TTTAGAGAT | ACGGGTACAA | ACTGTTGTA | 62820 |
| AAGAATGCTA | AGACTTGCC | GGGTGCAGTG | ACTCACGCCT | GTAATCCCAG | CACTATGGAG | 62880 |
| GGGCCAAGGT | GGGCAGATCA | CTTGAGGTCA | GGAGTTCAAG | ACCTGCCTGG | TTAACATGGC | 62940 |
| AAAACCCCAT | CTCTATTAAA | AAAAACAAAA | ATTAGCCAGG | CGTGGTGGTG | GGCATCTGTA | 63000 |
| ATCCCAGCTA | CTTGGGAGGC | TGAAGGCAGG | GAGAATTGCT | TGAGCCTGGG | AGGCAGCTGT | 63060 |
| TGCAGTGAGC | CGAGATCACG | CCACTGAAC | TCAGCCTGGG | CAACACAGCG | AGACTGTCTC | 63120 |
| AAAAAAAAAA | AAAAAATGCT | AAGACTTACT | TTGGGACATC | CTTTGTCAGG | GTCCATGATT | 63180 |
| CTGATTAGCT | CAAGGCAGGT | ATTTTTTTT | TTTAATAGAG | ACAGCATCTT | GCTATGTTGG | 63240 |
| CCAGGCTCGT | CTCGAACTCC | TGGCCTCCAG | TGACTCCCCC | CACCTCAGCC | TCCCCAAGTG | 63300 |
| CTGTGATTAC | AGGTGTGAGC | CACCACACCG | GTCTGGTTT | TTTGTTGGT | TGTTGTTTA | 63360 |
| ATCCTATAAT | CCTGTGTCCT | TTCTCCTAC | CTCTGAGTAG | TGCTTACTCT | CTCCCCTTA | 63420 |
| GTCATTTGAA | AAGTTTATCA | GAAAGTGGGT | GCAGTTTCAG | GCTGGGTACC | GTGGCTCATG | 63480 |
| CCTGTAATCC | CAACACTTTG | AAATGCTTAG | ATGGGAGGAT | CATTTGAACC | CAGTTCAAGA | 63540 |
| TTACAGTGAG | CTGTGATCGT | ACCATTGTAC | TTCAGCCAGG | GTGACAGTGC | AAGAGCCTGT | 63600 |
| CTCTAAAAAC | AAACAAAAAA | TTGCTTCAC | ACTGTGATGC | TATCACATCT | CTCCTAAGCT | 63660 |
| CTTGTGGGG | CTCAGAAATT | GATACCCTAA | TATATGGCCC | TTGGTCATAT | TGAAGTGAAG | 63720 |
| AAGCCTCAAA | GTCTCTCTGA | CATCCCTGCC | ACCAACTATC | CCTACCAAAA | CACATCGTGG | 63780 |
| AATTAAAGTT | TCTTATCTA | CCTAAGATCC | AGACCCACCA | AAAAGAGCAA | TTATTTTAT | 63840 |
| TTACCCCTCC | TGTAAGACCA | AGAATGTAAC | CATGCCCGAA | CGGACTTTCA | CAAGATAATG | 63900 |
| TTCAAGTTAA | TCTCTGTTCC | CTGATCTACT | TACTCTCCCT | AGTAATGAAA | GGAGTTGGCC | 63960 |
| AGCTTGCTTT | AGGCAGACAG | TAAGGGAATG | GTACCCAGAG | AACCTCTGAC | CTGCCCAAC | 64020 |
| AGTGCTTACA | CCGGATGTTT | TGTGCAGATA | AGGAACTTG | CACAGGGGGC | TTGCCTAAAC | 64080 |
| ATGCCTGCAG | TGGATGATTC | CTTCCTTAA | CACATGCACA | GTTCAGGAAA | TTAATCAATA | 64140 |
| TGGAGTAGCT | CAGTCTAAAG | GCCTGCATGC | ACTGGTAGGA | CAGGGTGGAG | TTGTCAGGAA | 64200 |
| TTTGAGTCTT | AAGCCTAGT | ATTCAACTGT | GAAGAGCAA | CCAGAAATCT | GCTTCAGGA | 64260 |
| CCCTTGTCTT | TGCTGAGAGC | TTTCCTTCA | CTTAATAAT | TCTACTCCAC | TCATTCTTTG | 64320 |
| ATGGCTGCAT | GCCTAATTCT | TCCTGGCTGT | GAGACAAAAA | CCCGGACCTA | GCTGAGCGAA | 64380 |
| GGAGCAAAAA | TCCGCAACAG | TAATCCCAC | AACAGAGTTT | CTCTTCTTCC | CCTCCATAA | 64440 |
| TCTGTTTGC | CAGGATAATA | TATAAGCTTT | TAAGCCCTCT | TGGGAAGTGG | ATAATCATTC | 64500 |
| TATGGTTCTC | CCTGTGTACA | TGTTAATAAA | TTTGTGAGTT | GATTTTCAG | CAAAGTTCC | 64560 |
| CCAGAAGCCA | AAGGGAAAT | TTCCCTTGGC | CCCTCCACTC | TCTTTCCCA | GCTCTTCTTT | 64620 |

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|-------------------|------------|-------------|-------------|-------------|-------------|-------|
| TACTTTCGTT | TTTATTCCT | CAGCCCAGTA | GGTCACAGCC | TTCTTTTAT | TTCTTCTCTG | 64680 |
| TCCAAACCAT | CAGTATATCC | TACAGGTGGG | AGAGAACGAG | CTCTCTGGGA | AACCAGTAAG | 64740 |
| CACCATGAGT | TCTGATACTT | TCTAGTACCA | TTTGACATAT | TAACATCCCC | GCCACCCCTA | 64800 |
| ATATGTATGG | ACACGCACAC | ACATACCACA | TCACATGCAT | CACACTAACAA | CAAACATATGT | 64860 |
| ATCACATACC | ACACACAGCA | CACACAGTAC | CACATACCCC | ACACAACACC | CACACCACAC | 64920 |
| TACGTGCATC | ATGCACATAT | GTGCACACAC | CTCTTGTGAT | GTGTGTTAG | TGCAATTAG | 64980 |
| AAAGTTACTC | TTTGATTTAA | TGCACATCAC | TATGCTTAGA | AATATTCTAG | TTACTGGGAT | 65040 |
| TCATCAGTGA | ACAATATTGA | AAAAAATCCA | TCCCTTGCA | TTCTCATGAG | GGAAGCAAAC | 65100 |
| ACTAAACAAA | ATAAATTAGT | AAAATATTCA | GTGATAAGTG | CCATGGGAAC | AAAATAGATT | 65160 |
| TGAAAATGTT | TGGGAGGGAG | AGAGGGGTAC | ACTTGCTAAC | AAGTGGTCAG | GATAGGGTTA | 65220 |
| GTTGAGAGGC | AAAATCTGAA | GGAGTTGAGG | AAAGGCATTC | TAGGAATAGC | TGAGTGCTGA | 65280 |
| CTCTTGCCCA | CAGTGGGAAC | ACACAGTACA | GAGCTTCTGA | AGGAGACTCT | AGTGACCTAC | 65340 |
| TTCCCATTGT | GAGTCTTGG | ACTCCTATAT | CCCATAATCA | CAGGATCAAG | CCTAACTTTA | 65400 |
| CATATTAGAG | ATAATGCATT | CCTCCTTGGG | GATAGTTCAAG | GTTGATTCT | CCCTAGGCCT | 65460 |
| GCCTTGTCACATATTCC | GAAGTCTCAT | CTGCACCCCCA | TCTCTGCTTC | TAATATTGGC | 65520 | |
| CACTCTGTGC | ATGAACCAGC | CCCTCCTTCC | TGCAATGGGA | AACAGGTGTG | AGATGGGACA | 65580 |
| GCTGTCACAA | TCCGTTTGC | TTTGTCCTTG | CTGTTATTAT | TGGTAATGGT | AGTTTGTTC | 65640 |
| CTTTTTAGCA | TTCACTAGCT | TCCTTTCCCT | GATCCTTGA | TAGTGTACC | AGAAAGGGGG | 65700 |
| TCCCAACCCA | GACCCTAAGA | GAAGTTCTTA | GATCTCGTGT | GAGAAAGAAT | TTGGGGCAAG | 65760 |
| TCTACACAGT | AAAGTAAAG | CAAGAAAGTA | AAGGAATAAA | AGAACGGCTA | CTCTACAGGC | 65820 |
| AGAGCATCAG | CTTCTGGACT | AAGGATACTG | ATATGGTTTG | GCTGTGTCCC | CACCTAACTC | 65880 |
| TCATCTTAAA | TTCCACATA | TTGTGGGAGG | GACCTGGTGG | GAGGTAATTG | AATCATGGGG | 65940 |
| GCAGGTCTT | CCCTGAGTAA | TTTATACTGC | TGTTCTCATG | ATAGTCAATA | AGTTTCATGA | 66000 |
| GACCTGATGG | TTTTATAGAA | AGGAATTCC | CTGCACAAGC | TCTTGCCTG | CTGCCATCCA | 66060 |
| TGTAAGACCT | GACTGCTCC | TCCTTGCCTT | CTGCTGTGGT | TGTGAGGTCT | CCCCAGACAC | 66120 |
| GTGGGACTGT | AAGAGCATGA | AACATTGTTT | CCTGGTATAA | ATTACTCAGT | CTCAGGTATG | 66180 |
| TCTGGATCAG | CAGTGTGAAA | ATGGACTAAT | ACAGATACTT | ACAGTTATTT | CTTGATTATG | 66240 |
| TACTAAACAA | GGAGTGGATT | ATTCATATGT | TTTCTGGGAA | AGATGTGGC | AATTCCCAGA | 66300 |
| ACCAAGCGTT | CCTCCCCTT | TTAGACTATA | TAGGGTAGCT | TCCTGACATC | GCCATGGTAT | 66360 |
| TTATAAACCA | CTATGGAGCT | GGTGGGAATG | CCTTCTAACT | TGCTAACACA | TTATAATTAG | 66420 |
| TGTATAATGA | GCAATGAGAA | TGACTAGAGG | CCACTCTTGT | TGCCATCTTG | ATTTGGTGG | 66480 |

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| GTTTTGGTCA | GCTTCTTAC | TGCAACCTGT | TTTATCAGCA | AGATCTTAT | GACCTGTGTC | 66540 |
| TTGTGCCAAC | TGCCTATTTC | ATCCTGTGAC | TTACAATGCC | TAACCTCCTG | GGAATGCAGC | 66600 |
| CCAGTAGGTC | TCAGCCTTAT | TTTACCTAGC | CCCCATTCAA | AATGGAGTCA | TTCTGGTTG | 66660 |
| AACACCTCTG | ACAATAGGAC | AGATCTGGAA | TGAGCCATGC | CTGGGTACAG | AGTCACATCC | 66720 |
| ACAACAATGA | AAGTTGTAGA | TATCTGCAAG | GACTCATCGT | GGGACCAAGG | ATTCAAGGGC | 66780 |
| TCATTCTTC | TCCTCTCTCT | GTGTGCTGGT | TGCCTCAGGA | GTAGAATGTC | CCATGCTATG | 66840 |
| CATGGGGTCT | GCAACCATCA | TGCCAGGGCA | TGATGAATCG | TAGGTGGCAA | AACAACAGAA | 66900 |
| GGCTCTGTGA | GCACCCAGGA | GGGTGCAGTG | CTGAAGAGTC | TTCTGCTTGG | TATAGGAAGA | 66960 |
| AAGGAACGTG | TTTCCAATC | TTGCCTTAT | TTTGAGTAGT | TGGACCAGAG | GGATTGCAGC | 67020 |
| TGGGCCAAAC | TCCATGTTCC | ATTGGCTATC | AGGGTCAGCA | GGCAGGCCAG | GGGCCAGAC | 67080 |
| AGGCCAGTGG | CTCCCAGAAT | TCAAGTTAA | TTTCTCCTCC | CACCTGTGTC | CTGAGCTCCC | 67140 |
| CTTACTGGTT | CCCTTGGACC | ACTGCATCTA | CTTAAGCCAG | CATTTATTAT | GTTGTTATCA | 67200 |
| TAAATGCCTC | TTACACCTGA | GACTTATAAA | TGTGACAAGC | TCTTATTGTG | AGATAGTAAT | 67260 |
| CCATCTTTT | TCCCCATGAA | ATAATAATTC | TAACGGGTGG | TGATAGTACT | TTTCCTTTCA | 67320 |
| TTTGAAAGTG | GAGAAGCTGG | AGCTAAGTCA | TTAAGGACTT | GACCCTGGAC | CCCACAGCCT | 67380 |
| TTTCTCCACA | AAGCACAAAG | CAGAGTGATG | GTCCCAGGGA | TCCCACACAG | CTCTAAGCTG | 67440 |
| GGGGCACTCA | CTGCTGGGCC | ACTAGTGACT | CCCATTCTCT | ATCCTGGCTG | ACCTCTGCTA | 67500 |
| TTGAAGAAGA | TCTGAGTCCT | GCAGAAGGAC | AGCAAGGAGA | AAAACAAGAC | ACAGAACGGG | 67560 |
| ACAGAGAAGA | ATAGAAAGCT | GACTCAGATG | AATTTGTGA | TGCCAATGAG | TCCTACTGCT | 67620 |
| GTTACCACCC | CTTTTCCAC | CACACCCTTC | AGAGCAGTTA | TAGAACACACA | AGCAACCCAT | 67680 |
| AAATAGCAAA | AGAAGTAACA | TCAGCTAGGA | AGGCTTAAGG | ACTCCAAGG | GAGTTGGTGG | 67740 |
| CAAAAGTAGA | AAGATCTCAA | ATCAGAGTCT | GTGAACTGAA | CCTCTGCAGG | CTTCCTGTTT | 67800 |
| TTAGATACTC | TGTGTTGGGG | TCACATGATA | GTTTACAGGG | TTATTAATTG | GTTCCTTCTT | 67860 |
| TTTATTGCTG | AAAAAGAAGG | ATATTTCTT | CCTACGTTTC | CCCCTCCTTT | ACCGGAGAGG | 67920 |
| CGGAGTGCAA | ATGATATGAA | CAACGTCACT | AGTTTCTCC | TAAATCTTAT | GAGCCCCGCC | 67980 |
| TCCCACAGTA | GTTTCACTTC | TCAGTTTAAT | CCGGTCTGAG | TTAACCTCCT | GACCCAGGAA | 68040 |
| GTGGCAGCAA | CAGAGGGAC | TAGCAGCGAA | TATGTAAGTG | TCTGAGCAGT | GAAGGTTACG | 68100 |
| GAAAAGGTCC | AGGCTAAGGT | TTTCTCAGTG | GATATGTGAG | TGTGTACTGA | TGGCAAGTGG | 68160 |
| GGTGGGGAAT | ATATTCGTG | ACAGCAGGGC | CCCTCCAAT | CTGAAATGG | TCAGGACTTT | 68220 |
| CTTTGTTTTA | CAGCTCTCAC | CTCTTCCCTG | CTCTTCTTT | CACCAGACTT | TACACCAAAT | 68280 |
| CTCAGAAGAT | TCAGAACTTA | GATGAGTGGG | GCCCAGGACA | GGAACCTGG | AGCCTGGAA | 68340 |

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| GGAGGGGAGC CCCATCTCCC CAGAAGAGCA GTGACCCAG CAGAGAGGGG CCTGGTGTAT | 68400 |
| CACTGGAGGA AATAGCCTGC CAAGGAATAC ACGTCTTCAG AAGAAATTCT GTGTGGCTTC | 68460 |
| AAGAGACTGA TCAAATTGTG AGAGGAAAAC AGCCTACCCG GTAATTGTAG TTAAATTACT | 68520 |
| GTTTTTATT CTAGGCACTC TTCAAACCTTC CTCCTGACTC TGCCCCTGTC CTAGAGGAGC | 68580 |
| TCCCAGGAGT AGGGGTGTGG GGGCGGGCGG GGGGGAGGGA TCAGGGGTAC AGGGAGAGCC | 68640 |
| CAGCTAGGTT CTCAGAACAG GCAGGCTTT TCGCTCCTGG TCACTCCTCT GTTGCCTATC | 68700 |
| CCTGGCCTCC CCCATCTTCT TTCTGCCTTC CCTACCTCCT TGGGTCTGCA AACTCTTTAT | 68760 |
| GTTGCAATCA CTCTGAACAT GTCTCTTGAG ATAGGTCTG TCCTGGAGAA GAGATAGTAA | 68820 |
| AAGTAAACTC CCCAGTTCTG CAGGAGCTCT GATCCCAGT AAATAACTGC TCCTCAGGAG | 68880 |
| CAAACCTCT GCTCTGCAGC CTTCTTCCA ATTCTTATTC CCTCAGTTA GGGAGAGGGC | 68940 |
| ACAAAAAGGA TAAACCAGTT CTTCTGGTT TTCTGGTTGC CTTGATTGCT TCCATTATCC | 69000 |
| TCCTGGTTGG GTCTCTAGCA AGACGTTATT AGCCAGGGAA GTCCCACCTTA GGCACCCCTC | 69060 |
| TCTGCAGAAG AGGTATTCAC TATTCTCCTT TCTCTTCTT TTGCCTATTA TACCTCTGCT | 69120 |
| CCTGAAAGCA AAAACAACAA CAACAAAAAC ACAACAAAAA ACAACCCGAC CTTATTAACC | 69180 |
| AGTGTGGTT GTTGGTCTTT GTGGGGGATG GGGGGGGTCG AGGTGGAGTC AAATTTTATT | 69240 |
| GTCATGATGG TGTAGGAGCC AAGGGAACAC TTCCCCTTG CCTTCTGAAG TTCACTGAAA | 69300 |
| AATCGACTCA CAAAAGGCAG GCTAATTGGA GAAAAGGCAT ACAAAATTAT TAACAAGTAC | 69360 |
| ATGGGCTAGA ATCACAGAGT GATTACCCCC TCTGCCAATG GGGTAGATA CTTATATAGC | 69420 |
| CTTATTTATA AATACTTATG TATAAATACA TAAATATAAA TATGTATGCA TATGTATGTA | 69480 |
| TGTATAAATA TGTATGTATA CTGTATAAAT ATGTATGTAT AACGTTTATA CATGTATACA | 69540 |
| TATTTATTTTC AGAGGGGAAG GGTGATATCA GGAGAATATA GGTAATTCTT TGAGGGGCAG | 69600 |
| TAAATGATTA CTAGGGAGAA TAAATGAATA TTTGGGAGGA TGAATGAATG GAGGAACAGA | 69660 |
| GTAAACTTG TAAATGTTCT CTTGGAAAAA TGAATGAGCC TGAGAGACAG ACATTATTTT | 69720 |
| GTGAAAGTGT CTGATTAGGT CTGGTAACAT TCTTAGTCCT CTTTCTTCA GTACAAAATG | 69780 |
| AGATAATAGG GGTTGGAAGG AAAAACAAATT GTTCTTCTTG TCTAGTGTGA CTGGTCTTTA | 69840 |
| TGTAGATAGG GGAAAAGTCT CTTCCAGCAT CTGCTGATCT CTAAGGCCT TTAATTCAA | 69900 |
| ATACTCATTA TACCAGGGAG TCATATATTG GGGTGAAGCT CCCCATACTC CTTCAATGGA | 69960 |
| ATCTGTCACA GATCACCCAA TTGCATAAGT GTTACTACTA ATTACAAAGA GTAATTCTGG | 70020 |
| TACCAATTAT TCTTTTTTTT TTTTTTAAGA CAGATTCTCG CTCTTTCACC CAGGCTGGAG | 70080 |
| TGCAGTGGTG TAATCTGGGC TCACTGCAAC CTCCCCCTCC GGAGCTCAAG TCATTCTCCT | 70140 |
| TCCTCAGCCT CCTGAGCAGC TGGGATTACA GGTGTGCACC ACCACATCTA GCTAACTTTT | 70200 |

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| TGTATTTTA GTAGAGATGA GGTTTGCCA TGTTGGTCAG GCTGGTCTCA AACTCCTGAC | 70260 |
| CTCAGGTGAT CTGCCCGCCT CGGCTTCCCA AAGTGCTAGG ATTACAGGCG TGAGCCACCG | 70320 |
| TGCTGGCCTG GTAACAATTAA TTCTTGAAAGT TAACTAGAAT AGGAAAGAGT TTCACACTCC | 70380 |
| CTGAGTTCTC TCTTTACAG CTTTGTGAG GAAGCCTGCA TTGCTTCTCC CAGCACTTGG | 70440 |
| TCCAAGGTAA CTTTCTGTGA TAACAGAATG TTGTATATTG AGGCTGTTAT GTAGCCACTA | 70500 |
| GTCACATGCA ACTATTAAGC AATCAAAATG TGGCAACTGG AACAGAAAAA CTGAATTTT | 70560 |
| TCATTTAAT TTTTATTAAG TTAAATTAA ATTCCTACTC ATGATAGTGG CTACTGTATT | 70620 |
| AGCTATACAG CTAGATGTTT GTGTATCCTC TAAATTCAA TGCATTTCTT CTTTCTGGAG | 70680 |
| AGAAGACTTT AGCTGGACAT GGTGGCACAT ACCTGTAGTC CCAGCCACTC TGCCAGGGTG | 70740 |
| AGGCAGGAGG ATTGCTTAAA CCCAGGAGGT CGAGGCTGCA GTGAGCTGTG GTCATGCCAC | 70800 |
| TGCCCTCCAC TACAGCCTGG GCAAGAGAGC GAGAACCTGT CTTATAAGAA AAGAAAAAGA | 70860 |
| GGCTGGGCAC GGTGGCTCAT GCCTGTAATC CTGGCACTTT GGGAGGCTGA GGCGGGTGGA | 70920 |
| TCACAAGGTC AAGAGATCGA GCCAACCAAC ATGGTGAAAC CCCATCTCTA CTAAAAATAC | 70980 |
| AAAAATTAGC TGGCGTAGT GGTGCACACC TGTAGACCCA GCTACTACTC GGGAGGCTGA | 71040 |
| GGCAGGAGAA TCGCTTGAAC CCGGGAGGCG GAGGTGCAGT GAGCCGAGAT AGCGTCACTG | 71100 |
| CACTCCAGCC TGGGTGACAG AGTGAGACTC CGTCTCATTAA AAAAAGTTAG | 71160 |
| AAGACTGAGA AAAGAAAAAT AATGAAATAA TTTAGAGCAG TCTGAGCTAT GTGAGGTATG | 71220 |
| CAAAATTAT CAGGACAAGT GAGGCAGGAG TATAGGTCTT CCAGTTAAGA CCCATGTTT | 71280 |
| TAAAAGCATT TTGTTCCCTGA CTGGCTGCCT CATCTATTAC CTACATATTC CCGAGATTTG | 71340 |
| TTAACACAAA GAAACAATGT TATAGCCAGT CCAAAAGCTT ATGCTATTT AATGTTAAAT | 71400 |
| CCTTGGAAA CAACCTTAAA ACTGCTTAA ACTGCTTTTT TCCTCTAACAA CACTTGTACT | 71460 |
| GCTTGCTAAT GAGGCACCTTG AACTCTGCAC TTGGTTGCAG TTTCTCAAAG TGCCCCAAC | 71520 |
| AACCTTCACT CAATTCTTC CTTTAGTTTC CTCTTTCTT CAATACAAAA TGAGATAATA | 71580 |
| GGGGTTGGAA GGAAAACCTT CAAGACCTAT GGAAGTCAGT TGCAGCCAGC TCATCACATA | 71640 |
| GAGGTGCAGG TGAGGTGTAT TTTCATCACG GTGGAAAATT CTGGCTGCTT CATCTCCATC | 71700 |
| TCTAGAGCCA ATATTGGAGC TTTTCAATAA AAGCTATGGC CTCAACCACC AGCACCAAGA | 71760 |
| AGATGATGGA GGAAGCCACC TGCTCCATCT GCCTGAGCCT GATGACGAAC CCAGTAAGCA | 71820 |
| TCAACTGTGG ACACAGCTAC TGCCACTTGT GTATAACAGA CTTCTTAA AACCCAAGCC | 71880 |
| AAAAGCAACT GAGGCAGGAG ACATTCTGCT GTCCCCAGTG TCAGGCTCCA TTTCATATGG | 71940 |
| ATAGCCTCCG ACCCAACAAG CAGCTGGAA GCCTCATTGA AGCCCTCAAA GAGACGGATC | 72000 |
| AAGAAATGTC ATGTGAGGAA CACGGAGAGC AGTTCCACCT GTTCTGCGAA GACGAGGGC | 72060 |

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| AGCTCATCTG | CTGGCGCTGT | GAGCGGGCAC | CACAGCACAA | AGGGCACACC | ACAGCTCTTG | 72120 |
| TTGAAGACGT | ATGCCAGGGC | TACAAGGTGA | GTGTGTGGGC | CCGGGAGCTT | TGGTAAGTAC | 72180 |
| CAAGTCTTAT | CCTGCTCCCC | AGGAGCTGAG | ATGATTAAAC | TTGAAACCTA | ACATTATGAC | 72240 |
| TTGGAAATAC | AGCTTCATC | ATGTCATTCT | TCTGAAAAAT | AGTTTATGAT | GATTTCTTGC | 72300 |
| TCAATTATCT | AGACTGTCCA | TCCTGACCTT | CAATGGGATG | GTTGGACTCT | TATCTCTATC | 72360 |
| CATTTGTGTT | ATGATGAATT | TCTTTTGCT | TTAGAACAGG | TTGTTCTCAA | ACCAAACACC | 72420 |
| CGCATTTTT | CTTGTTCAC | ACCATGAATA | TCATTGAAA | AACCACAATA | TGTAAAGCCA | 72480 |
| TGCAGTAGGG | CCTGAAAACA | GGGAAGAAAG | ACCCATCACC | TTTTAGGTAT | CTACAGTCTA | 72540 |
| GTAAAGAAAA | CAAACCATCA | AAAATGTCTG | CCTGGAGGTC | CCTGGTTTG | GTGGTGGGGA | 72600 |
| GGGACATTAA | GGGTAGAGAG | TGGTCATCT | TAGAAGTAAC | TCCTGAAGGA | CACGTAAAAA | 72660 |
| TTGAACACCT | ATTGGGGAT | TTTCATTG | GGAATGAAGG | GTCAGTGACA | TTGAAAATAT | 72720 |
| CACTCTGGTA | CCTCTACTTT | TTTTTTTTTT | TTTTTTTTTT | TTTCCTGAGG | TAGGGTCTTG | 72780 |
| CTCTGTATCC | CAGGTTGGAG | TACAATGGTG | CAATCTCGGC | TCACTGCAGC | CTCAACCTTC | 72840 |
| TGGGGCTCAA | GCAATCCTCC | CACCTCAGCC | TCCCAAGTAG | CTAGGACTAC | AGGGATGCC | 72900 |
| CACCATACCT | GGATAATTAA | TTTATTTTTT | GTAGAGACAT | GGTCTGCCTT | TCTGCTTAT | 72960 |
| ACTGGCCTCA | AACCCCTGGT | CTCCCTCCCA | TCTCAGCCTC | CCAAAATGCT | GGGATTAGAG | 73020 |
| GCATGAACCA | CTGTGCCAG | CTACTGTGGC | ATGTCTATGA | AAAAAGGAAT | ATCAAGGAGT | 73080 |
| AAAATTCAAA | CTATCCGTAT | AAGAAAGGGA | GGAGAGGGCA | GATTTAAGC | ACGATTCAAG | 73140 |
| AAGAAGAGTC | AAAGATTGG | AAATGCTTGG | TTGTGGAAGG | TGAAGCAGAG | GGAGAGGTTT | 73200 |
| TGTGTACCAT | CCAGATTCT | TGCCAGAAAG | CATATTAAGG | AAGGTGGGAC | TTGCTGTTG | 73260 |
| GCAGCATGGA | GGAATGGCA | TAGCCTGAT | GTCCTTTTC | CTTCTCTGTC | CTGCCTAAAT | 73320 |
| TTGAGGAAAA | TGTTGTCTCC | AGTGTCAAGC | TCCTTATTCT | GTCCTCCATG | AGGCAGAGGT | 73380 |
| GGTCTTGTAT | GAAGGCTCTA | AGTCCTCTA | AGGACATGTC | AATCATGACC | ACCACTCAGC | 73440 |
| TCATGGCAGC | TCTTCCTTAA | ACTCCATGGA | GCAGCTAATA | ACTGCGATGA | TCATATTCCC | 73500 |
| ATTTGAATTA | CTTTCCACC | AAGTAGTAAG | AAAAGGAACC | AGCTTATGTT | GAAATTGAGT | 73560 |
| TTTGTCACTT | ACTAGATGGG | CAATTTGGG | CACGTTACTT | AATGTCTTCA | CACCTTGGTT | 73620 |
| TCTCCATCTG | TAAATGGGA | TAATAGCAGT | GTCCTCCCTC | CCTAAAACAC | ATACACAGGA | 73680 |
| GGTGGTTATA | AGCTTGAGG | ACATTAAAAT | ATAGAATGCA | TAGAATAGCA | CTTGGCATAT | 73740 |
| AGTAAGGACA | ATGTCATCTT | TTGCTAAAAC | AGTTACATAG | AACCTTTCC | TGAGAACACT | 73800 |
| CGAGAATGAA | TGAGTATACT | TGTTGGTTT | ACAGAGGACA | GGAGACAATT | CTTCAGCAT | 73860 |
| TGACTACAAT | TAGCAATTG | GGTCAGCTTC | AAATCACTTT | CAATAGAAAT | ATGAGAAACT | 73920 |

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| GTTTGAGA ATAAGCTAAA AGCTTGACAT GAATACTAAA TCATTTAAA TTGGATTCAT | 73980 |
| GATACCATTG TTCAAAAGAT ACCAGAATTC CCCTCTTCCA TGAACTGTTT CTAATAACCA | 74040 |
| GCTGGCATCC TGATTTTCC TGACTCATAA GACACAAAAT TTCATGTTGT TGCCAAACAC | 74100 |
| TGGTATTGGT TTTGCTTGGT TCAGCATGTT GTTTACAAA ATCTTTAGA TGATGATTAC | 74160 |
| CTTGTCTAT ATCCAACCTT TTCCTGGCAG GACTCTAGTG GTGGACATAG CTCAGGCTCT | 74220 |
| GGGTCAGCAG ATGAGATTGC AATTGTTGCT CCACCACCTG GCAGTCATAG CCCTTGGC | 74280 |
| AAGTTATTTT ACCCCTTCT TAGTCTCATT TTCTACAGCA CAGAAATGAA GTTTAAAATC | 74340 |
| CTACCAACTA TTCAGGGTTG CCAAGGGAT CAGTATGTT CTGCACATAT AGCCTTAGC | 74400 |
| ATGCTCTCTA GCAAAAAACA ATGAGGACTC TATAAATATT CACTATTATT CAAATATATC | 74460 |
| TTAGAAGATT GGGATTCCCC CTAGGTCCCT AATGAAGAGT CAAATTGAAT AGGCTTCACT | 74520 |
| TATCAAATTG TTCCTTCAGG AAAAGCTCCA GAAAGCTGTG ACAAAAGTGA AGCAACTTGA | 74580 |
| AGACAGATGT ACGGAGCAGA AGCTGTCCAC AGCAATGCGA ATAACAAAT GGAAAGTAAG | 74640 |
| AATCTGACTT CATTGATCTC AAGCTATTTT CCATTCTAGA GCTTAGGCAT AGGGGATGAT | 74700 |
| TGAGGAAAAG CACAATGAGG ATTTATTCTC ACTAAACCAG ATTGAAAAAA TGAAACCCAA | 74760 |
| GGAAGAAACC ATTATTTGTA CTTATGCCCT TGTTCCAGG TTTACATCCA TGAGTATTTA | 74820 |
| GCACCAATCT TTCCATCTT AAACGTAGT TGGCTGGGAT TCCTGATACT TCAGTCAGAA | 74880 |
| GAAGCAGAAT TAGTATGACT ATTTACCTAG AAAAACATC GAGTGGGTCT CAAACTTTAA | 74940 |
| ATACGTCAA ATAACCTGG TTTGCAGGCC TCAACTCATT ACCCTGGCAC TTTTACCACA | 75000 |
| GTGGAGCATC TGGCTCTCAA CTTTACAGGT ACAGAAACCA AGCTTGTA ACACCTAGAA | 75060 |
| AACAGGATCA CTCCAGATTG AAATTCTAC TACTCTAGCT CATGAAGCTG ATGAAAGAAA | 75120 |
| TATACTTTAT TTATTTATTT ATTTTAAAT TATTACTATT TTTTGAGATG GAGTCTTGCT | 75180 |
| GGAGTGTAGT GGTGCGATCT CAGCTCACTG CAATGTCCAC CTCCCGGGTT CAAGCAATT | 75240 |
| CCCTGCCTCA GCCTCTTGAG TAGCTGGGAT TACAGGCATG TGCTACCATG CCTGGCTAAT | 75300 |
| TTTTGTATT TTAGTAGAGA CGGGGTTCA CCATGTTGGC CAGGATGGTC TTGATCTCCT | 75360 |
| GACCTCGTGA TTCACCCACC TCAGCCTCCC AAAGTGCTGG GATTACAGGC GTGAGCCACT | 75420 |
| GCACCCGGCC TATACTGAT TTATAAGTAC ATCACAAGTA ATGCAACAAAC CTACACACTT | 75480 |
| GCAACTACAA ACTTCAGAT TATTCGGTG GCTGACTAAC CTCCACATTA TCAGAGCCAC | 75540 |
| ATTCTTTAT GGAAATATTT AGGTTGTGC AAAAGTAATT GCGGTCTTG CCATTAAAGT | 75600 |
| AAAGGCAAAA ACCACAATTA CTTTGCACC AATCTTATA TTTATATAAT TCACTAGCTT | 75660 |
| GCAGTAAAAT CCCACAAGCT GATTACCAAT TTTCTCTCTT TCAGGAGTCC TCTCTAACCT | 75720 |
| CTACCCTGAT CTTTGTGTTGT GGATGTTGCT CTTGAGCTCC TGAGTACACT CTTACTTCCC | 75780 |

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| CCATTTCTAG GATCTGGGC AATGGGAAG ACCTGATTG TAACTAACAT ATATGAAAAC | 75840 |
| CCGTCTATAAC AAGAGTTAAA GCTGCACCTG TCTCCTACAC AAAAATTCCA CCTCATCCTA | 75900 |
| AGTCAAAGAC CCTTCTTCTA TATCATAGTC ATCAAAACAC TGTATGAATT TATTTTTATT | 75960 |
| TTTTAATT TTATTTTTA AGATAAGTAG AGAGTTATT TGGGCCAAGT TTGAAGACTG | 76020 |
| CAATCCAAGA ACATAGATTG AAATTGCCCT GAATACACAC TCCCAGTGCA TTAATTAGA | 76080 |
| CAGCACTAAT GGAAATTGCA ACTTTACATC TCCTCAGATG AGAGTTCAC TTGATTCTG | 76140 |
| TCAGTCTTAC ACATAGGAAT GCTTAAGATG ACCCTAGGGT AGTAGAACAG TATTTCTCAG | 76200 |
| TTAACCAATAA TAAATGCCTG TCACACTCAA AGCTCCCCCT GCCAAGAATT ATGGACCCTC | 76260 |
| TTTACAGCCT GGTTGTCTTA AAATCCAGTC TGGGTGATGT TCATTATAAG CTTTACTTC | 76320 |
| AAGAAAATCG CTCCAACCTCA GAAATCTAAC TTCTTAAATC ATAAGTAAAA ACCTCTTTT | 76380 |
| ATCCTTGTAAC TGATAAAAGT GTTTGAACCTT GGCCCTAGTT TCACAATTAA ATTATCTAGC | 76440 |
| ACTCCTAACCC CAGCTTCTC CTGTGTCTG GCTGAAGAAC AAGAAAATTA ATTGGGTGAC | 76500 |
| TATAAGGAAT CTGAGGCAAC CTCTTCCACA TCTGAGTGCC TGCCTCCAC ACATGACTCT | 76560 |
| GCAGCAGGAA ACTGGGGACA TTCTTCCAGC TTCAGTGACT CATGAGAAAA TAATGTCCA | 76620 |
| GTGGCTGATT GTGTGTGTGT GTGTGTTGT GTGAAAATAT ATATAACACT TAAGCATTAA | 76680 |
| ACCACTTTA AGTATATAGT TCAGTAGAAT TAAGTGCTTT TACATTGTTA CATTGTTGTG | 76740 |
| CAACCACATCAC CATTCCCATC TCCAAACTGC AACTCAGTTT CATCTTCAT CTTCTAAACT | 76800 |
| GAAACTCACT ACCCATTAAA CAATAACTGT CCATTTCTG GTCTGCCAA CACCTTGAA | 76860 |
| CCACTATTAA ACTTCTGTC TCTATGAAC TAACTACTCC AGATGCCCTG TATAAGCAAA | 76920 |
| GTCTTACAAT ATTTGCCCTT TTGTTCTGG CTTATTTGC TTGAATGTCT TCAAGGCTTG | 76980 |
| TCATGTAGTA GCGTGTGTCA GACTTCATT CTTGTTATC CATTGATCCA TAGATGGACA | 77040 |
| TTGGTTTAC TTCCACCTT TGACCATACT TTCTTGACTC CAGGAGAACAG TACAGATTCA | 77100 |
| GAGACAAAAA ATCCGGTCTG ACTTTAAGAA TCTCCAGTGT TTCCTACATG AGGAAGAGAA | 77160 |
| GTCTTATCTC TGGAGGCTGG AGAAAGAAGA ACAACAGACT CTGAGTAGAC TGAGGGACTA | 77220 |
| TGAGGCTGGT CTGGGGCTGA AGAGCAATGA ACTCAAGAGC CACATCCTGG AACTGGAGGA | 77280 |
| AAAATGTAG GGCTCAGCCC AGAAATTGCT GCAGGTGAGG CTGTGTACTT GGAGTAGGGAA | 77340 |
| AAAAAGGTAT GTTATAGTGC TATTAAAGGA GAATGGTAAG GAAGCATGGG AAGATAAAAGT | 77400 |
| AATGTTCTT TTAGATGTAC ATCACTGCCA TCAGGCTGGC CTTCACTAAT TTATAGGGTA | 77460 |
| CCTTTATGTC AATTAGAAAA ATAAACTTCT GAGGGAACAC AGCTTGGCCA AATGAAACCA | 77520 |
| CGGGATAACA TTTACCACTG TTTGCCTCCT TGGCCCATGT GCAGAGAACCTTGTTG | 77580 |
| ACTCTCTCCT GAAATACTCC ACTAGGTGAC TGATGGGTGA TGAAGTGGGG CAGCCAAAAT | 77640 |

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| GAGTGATAAC | CTTTCCCTG | ATTTGCTTGT | AGAACCCCTG | CTCCAGAGCT | GTTATGGTAC | 77700 |
| AATCTACAGC | TTTATCTGTA | GGAAGATAAA | CATCTGGAGC | CATTAATTCT | GGTTCTAACT | 77760 |
| AACAGGATTG | GTGACTATAC | TGTAAGGCTG | AGTGTATAGC | ATGATTGCTT | TACCACTGTG | 77820 |
| TGATACCTGC | TACCACCATC | TTAGTGGCAG | TGGCCCAGTC | TCAGGGCTGT | GCACAGATT | 77880 |
| ACCACTAAGG | ACCTTTATGA | TAAGTGTCT | CTAATCTGGG | CTCACTGTGA | AGGAAATCCG | 77940 |
| ATCACCAAAA | GCTAGTCCTT | ACAGAGGGAG | CATGGACAAA | GCTCCTGGCC | CTCAGACTTC | 78000 |
| AGCAAGGATG | AGAATAGATG | CAAATGTTGA | TAAACATCCT | GCCATGCTGA | ATCTCCCAGA | 78060 |
| AGCTGGTAGG | AATTATTCCA | TCTGGTATC | CATCAATACC | TAAGACTGGT | GGGAATTACT | 78120 |
| TTGTTTGAGT | ATCCATCAAT | ATCTAAGACT | AAGACTAGGG | TAACTCTCTT | TACTTCTTCG | 78180 |
| GGTAAAGCAA | AGAAGAATAG | CCCTGCATGA | CAAGCCCCAT | GAAATACCGA | TGTTCCCATG | 78240 |
| CTCACCTTT | CTTTTTGTTT | CTTTATAGAA | TGTGAATGAC | ACTTTGAGCA | GGTAAGTCCT | 78300 |
| TTTGAATGC | AGGAGGGGAG | GGGTGTGCGT | ATATAGAAAT | GAATGGAATG | CACCTCTGAA | 78360 |
| GAAATCTCTC | GCCTCTGCTT | ATTCTAGGAG | TTGGGCTGTG | AAGCTGGAAA | CATCAGAGGC | 78420 |
| TGTCTCCTTG | GAACCTCATA | CTATGTCAA | TGTTTCCAAG | CTTTACTTCG | ATGTGAAGAA | 78480 |
| AATGTTAAGG | AGTCATCAAG | GTATGTTCAC | TAAAGAATTC | CTGAATACTG | TGGATAGAAG | 78540 |
| GGGCCTTATG | CAGTAACCAA | GTTCACCACC | TGTCCCTTGG | CAGGCTCAC | GCCAGAGAGG | 78600 |
| TTGTTTAGTT | AATTTCAGTA | GAGCTTCAT | ACTTCTCTA | GTTAGTATGA | TTCACTGCTC | 78660 |
| AGTGAATGTG | ATGAGCATTG | CATTCTGGTT | ATCTGTCAA | ACCTTCAAA | TTCTTATTCT | 78720 |
| TTCACTTATT | AGCCATGTTA | CTCCAAGTGA | CTTGGTTTCC | CCCTCTGAAA | AATGAAAATA | 78780 |
| TTAACAGCTC | CTACTTCATT | GAGTTATCAT | CAAAATTAAA | TGCATCAACA | TGTACAAAGT | 78840 |
| GCTTAGCCCT | GTGACTGACA | CATGATCATA | ATAGCACATC | ATGGTATTAG | ATCTGATCAT | 78900 |
| AGTGTATT | ATCAATAGCT | CAGCCAACTC | TTAGAGCAAT | GCAAGAAAAG | TAGGTGAGTA | 78960 |
| TGATAACCTA | TCATTCACAT | ATTTTAGGAA | CTTGACTTAG | ATAACACAGA | TGACAAATGT | 79020 |
| TACAACCAAT | TTACAGATTC | CAAAATGTTA | GAACCATTAA | CTGAGTTCC | TGCTCCCTTG | 79080 |
| ATTTTTAAA | TCAGTGCTGA | CTATACTTTC | ACAAATTGT | ATCCGTAAGT | ACAAAATCAA | 79140 |
| AAAAACCCCT | GAAAATGGAA | AGTTTATCA | TGATTCAATT | GGCTACAAA | ATCTGGCCTA | 79200 |
| ACCTGAAATG | ATTTGGTGGT | TATATTAGTT | ATCTATTAGT | ACAAACAAAT | TACCATATT | 79260 |
| TAGAACCTTA | ATACAACACT | GATATGTTAT | CTCAATTTC | GTGGTTCAAG | AATCTGGGCA | 79320 |
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| CTGTGTTCTT | ATCTGGAGGC | TAGGCTAAGG | AAGAATCCAC | TTCCAAGCTC | ACTGAGGTAG | 79440 |
| CAGGCAGAAT | TTCTTCCCTG | ATGGTTGCAG | GACTTGGCC | CTGGTTATT | CTGGCTGTTG | 79500 |

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| GCCATATCCT | ATTGGTCAGA | AGCAATTCA | AAGCCCTGCT | CACACTCAA | GACAAGGAAT | 79740 |
| TTTACGAGGG | TGTGAACACC | AAGAGGCAGG | AATCATAGAA | GGCCACCCTT | GAGTCTGTCT | 79800 |
| TCCACAGTGG | CCAACCCTGA | ACGGCACTGA | GATGAGACTA | TTTAAAAGTC | TTTATTTATC | 79860 |
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| AGACCTGTGT | TCCCCTCAA | TACACAACAA | CAAACAACAA | CAAAACCCAA | AAGCACTCTG | 80100 |
| TATTCATCC | TATACAGATG | ACAGGAAGGA | AGAACAAAGAC | TTTGTGTAAG | TTTGCTGGG | 80160 |
| ATTTCACTGA | GTCAATTGC | CTACTCTCAT | CTTTTACAGA | AGGAATCATA | ATATGGTTCA | 80220 |
| AGTGAAACTA | TTTCTTTCTT | TCTTCTTTC | TTTTTTTTTT | TTTTTGAGAC | AGAGTCTCGC | 80280 |
| TCTGTCGCC | AGGCTGGAGT | GCAGTGGTGC | GATCTCGGCT | CACTGCAAGC | TCCGCCTTCC | 80340 |
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| TACAATGTTG | CTACAATAAC | TTTCTAGTCC | ATGCATCCTT | ATATCCTGGT | GCTTCATT | 81120 |
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 ACAACAAACAT TGCATGTTGG CTCCATACCT GGACTCTTGG TCCAATTGGT AATGAAACCA 83220

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| CCAGTGTCTT | CATAATATAT | ATATATACAC | ATACACACAT | ATATTATATT | CTCTCTATAC | 83340 |
| ATATTTATTT | ATATATCTAT | ATCTATATCC | TTCCACCTCA | GGTCTCCCTC | TGTCTCCCAG | 83400 |
| GCTGAGTGGT | GCAGTAGTGC | GATTATGGCT | CAACCAATGA | GAGGATCAAT | GGCAATCCTC | 83460 |
| TCATTTCAGC | CTCCCCAGTA | GCTGGGACTA | CAGGCATGGG | CCACCACATC | TGGCTGATGT | 83520 |
| TTAAATTTTT | TTGAGACAGC | ATCTCTATAT | GCTATAGATA | TATATAGTAT | CCTCTCTCTA | 83580 |
| ATATGGATAG | AGGATACTAT | GTCTATATCT | GTATCTATCT | ATCTATGGAG | AAGGAATACT | 83640 |
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| GTTGCCAAG | CCGAGTGGTA | CAGTGGTGC | ATCATGGCTC | CACCACCTGA | GCTAAAGTGA | 83820 |
| TCTCTCACC | TCAGCCTCCC | CAGTTGCTGG | GACTACAGGA | ACAGGCCACC | ATACCTGGCT | 83880 |
| AATTTTTAA | TTTTTTTTG | AGACAGGGTC | TCCCTTGCC | ACCCAGGCTG | GAGTGCAGTG | 83940 |
| GCGCAATCTC | GAETCACTGC | AATCTCCACC | TCCCAGGCTC | AAAGTGATCCT | CTCACCTCAG | 84000 |
| CTTCCCGAGT | AGCTGGGACT | ATTGGTGTGC | ACCACAATGC | CTGGATAATT | TTTCATATTT | 84060 |
| TTTGTAGAGA | TGGAATTGG | CCATATTGAC | CAGGCTGGTC | TCAAACCTTT | GGACTCAAGT | 84120 |
| GATTGACCCG | CCTCAGCCTC | CCAACGTGCT | GGGATTACAG | GCATGAGTCA | CTGTGCCTGG | 84180 |
| CCTGATTATT | GTACACATTT | TTGATGTAAT | GTATTATATA | TGTCATATAT | GACAATCTAG | 84240 |
| ATGAATATAT | TAAAGATTGG | GTTCATTTT | ATATATTGTA | AAATACATAC | ACTATACATA | 84300 |
| TATAATATGT | AGAACATATG | CTATACATAT | TATATATGTA | TATGTTAAC | TATATAATAC | 84360 |
| ATACACATAT | AATATGTATA | GTTGCAAATA | AAAAATTGG | TTTGTATT | ATATTATTTT | 84420 |
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| AGTTCCATT | TTGCTTGATA | AAGATGCACG | TTTATTATC | TGTCGGTAAA | ATTAAAGTA | 84600 |
| GTGATTCAT | TTCTTTAATG | TTAGGTCTGC | CCATGCTTA | TTTGTTTTT | GAGTGAGTT | 84660 |
| TACTCAGAAA | TATTTTTCT | AGGAAGTAAT | AATTTATCA | GTACTTCAA | TTTTATTAGT | 84720 |
| AGCATAAGAT | TTATTATAAA | GTTCTGTAAT | ATTTAAAAG | TTTCTGTATT | CATTCCATT | 84780 |
| GTGCCTCTG | TCTTACTTTG | ATAAATCTCA | TTGGAGGTAT | GTCTATT | TTAAATTCT | 84840 |
| TTTAAAAGAA | GCTACCTTT | TTTTGTTTG | TTTCTCT | TTATTGCA | CTTGT | 84900 |
| TTAACCTCAC | TGTTATATTG | TTAATATCT | ATTTTTCTT | TTTAAAAAT | TATATTGGC | 84960 |
| TTTCTATGTT | CTTTTTAAAA | TTTAAATTAG | ATGCTTGCT | CATTAATGTT | CAGCTTTA | 85020 |
| ATTTTTCTAA | GATAAGCATT | TAAAGCCTAC | AAATTTCC | TTAAATTCTG | CTTAGCTTC | 85080 |

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| TTTATTAGTAG TTTACATTTC CTAATATTAA GAATCTTTT AGTCATCTT TTATTATTGG | 85200 |
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| GCTGTAGTGT AGTGGCGAAA TCTCAGCTCA CTGCAACCTC TGCCCTCCCG GTTCAAGTGA | 85740 |
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| AATTGTTGTA TTTTGTTAG AGCCAGGGTT TTGCCATGTT GGGCAGGCTG GTCTTGAAC | 85860 |
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| TTTGTTGAT GTGTCACACC AATAGATAGG TGGAATTAA AAAATCCAAT TGATATT | 86100 |
| TCTCTTAAGT GGTATTACCA CCCCGTAAAC ATTTAATTCT CAACATGG GTTTCTGG | 86160 |
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| AGTGGCAGGT GTAGGGAGCT GTAATATAC TAGAGTGTGC CCAGAGGCAG AGGAATGCAG | 86400 |
| ACCCCTCCAAA TCATAGCGTG GGACTGGGT ACTGAATACT CCCAAGGCTG CTTCTTGTG | 86460 |
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| ATTTGGAAGA ACAAACAGAG AGCATCCAGC ACAGGAAGTG TTTCTGAATA CTTGAATTCC | 86640 |
| TTAATTGTCA CAGACCAACT GATCAACATT TAACTCAGTA GCACAGTGGT TTCCTTAAC | 86700 |
| CTCTTGTAG AACATCCTAT TACCATTAA TATTTTAA ACTGCATACT GTTCCAGTAT | 86760 |
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| ACTACATGTT GTTAGAAGAG CTGAAGCAGG ACTGGCTTGT CTGTCATAAT GTAAAAGAGT | 87240 |
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| TCACCACCTG CTTCTTGTT TGATCACCAA TAAATAGTGT GGGCTCCCAG AGCTTAGGGC | 87660 |
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| CTTTCTCAT TCCTTGACC CCGCCGGACT TTGTAGCCCC CACGGCCTGG TGTTGGCCT | 87780 |
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| GTGGGAATTT TTCTGGACTA TGAGGCCGGA GTTGTATCCT TTTATAACGG GAATACTGGC | 88800 |

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| ATAATTGATT TATGTTGAAT ATATGGACTT AGCAACTAAA AATACCACAG ATGGTTAAC | 89100 |
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| GAGGTCAAGGA GTTCAACACC AGCCTGGCCA ACATGGTGAA ACCCTGTCTC TACTAAAAAT | 89940 |
| ACAAAAATTAA GCCGGGCATG GTGGTAGGGG CCTGTAACCC AGCTACTCGT GAGGCCAAGG | 90000 |
| CAGGAGAAATT GCTTGAGCCT GCAGCAGCTG CAGTAAGCCA AGATCATGCT GTGCCTCAAG | 90060 |
| GAAAAAAAAAA ATTAATGTTT ACTGATATTG GTTGAAGTCC TACAACATCA CCTCTGAGAA | 90120 |
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| TGCCTAAGGG AGATATAAAA GAGTTCAAAC TATTGCCAT GTTCCCCAGG GTCAGAAGTT | 90240 |
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| ACCTCTTGGC ATCCCACAGT CCTGTGTTAA TGTAAGTGTG GTCTTCCCCA GAAAGGGAG | 91020 |
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| GGAGATTAAT TGGGGTGCAG GAAAGTTATG GAAAGAATAT AAGTCCTGCT AGATAATCA | 91260 |
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| TCCCATCTCT AAAAGAAAAG AAATTAGCTG GGCATGGTGG CATGTGCCTT AGTTTCAGTA | 91620 |
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| AAAAAAAGTT ACAGAGCTCC AACTAAATAA TGTGGGAAC AAAAGAAAAA AGAAGATGAT | 91800 |
| TTTATGGCTG ATTTTTTTT TAAGGAAAAG CAATTCAATG ACCCTTGAAAG ATTAGATTAA | 91860 |
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| GAGCCACTAA AGTTCCAGCC ATCATACTCA CAACCCAAGT TGTAGGATGG AAAAAAGGAC | 92100 |
| ACAAAAAGTAG GGTGAAGAGC ATGTGTGCAA CAGCTCTTT TTACTCTAGT GTCCTAAAAC | 92160 |
| CTATCATAAA ACCTTGGCT TGCCTTGCAT TAGCCAGAAT TTAGTACATG GCCACACTTA | 92220 |
| AGAAGTCAGA AAGATTAGCT TTTTTCCAG GGTAGTTGGC TGAAAATCAG GAGTTCTCAT | 92280 |
| ATTAAAAAAC AGAGAAGGGA CATCGAATAG ATGACCAACA ATCTCCTTCA CACTCATACT | 92340 |
| ATTAAACTG TCCTAGTCAA TGACCAAAAA AGAAAAGCCT ACAAAACTCAT TGATATAAAA | 92400 |
| GCTTAACAAA GGTACTCCCC GCCCCCCGCC CGCCACACAC CATCCCCAAA AGGAAATTTC | 92460 |
| TAATCCAATT AACAGTCTTA GGTTGGCTG CTGAAACAAA ATACCACAGC CTGAGTGACT | 92520 |

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| CTGCTAGGAT CTCAACTAAA CCTAACTATC ACCCAAAGAG CCCACCTCCA AAGACCATCA | 92760 |
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| TCTAGAGTGT CATACTGTT TGAAGCAGGA AGCAGGAGTG AACTCCGGAG GCAGGGACTT | 93180 |
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| GTGTGATTGG TGAATCTTAT GGTAAAAGTA TGGTTACTTT TGTAAGAAC CACCAAAGT | 94200 |
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| TACTGATCAA ATTCACTATG TATTTGCAGA AAATGGCTT CAATATTGTC TACTTTATCATCCTTTTTT TTTTTCTTT CTTCTTTTAAAGATACAGGG TCTCACTATG TTGCCAGGC | 95100 |
| TGGTCTCCAA CTTCTGGCT CAAACAATCC TCCCTCCTTG GCCTTCCAAA GGGTTGGATA | 95160 |
| TGTTTTATCT ACAGTTTGT TGTTTGTTC TGCTACAGGA TATTTGCAAT TGCCATTAT | 95220 |
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| ATCAGTATTT CAATTAAATT ACTAATTATA ATTACAGTT ATCCTTGAA CTCCTAATGT | 95820 |
| CTATATAAAA GATTTTATA TTTTTAATT CTTAAATTT TATTATTAT TTACACACCAG | 95880 |
| GCCATCACTG TGATACATTT TTTAAACAC ATTAAATTAT CACCAGAAAA GTGCTGTGAT | 96000 |
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| | 96240 |

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| GAGTGGTCCC | AGATAAGTAT | TGTACCCATC | TTCTGCACCA | GTGCTTCCTA | CGTCCCATT | 124320 | |
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| AAAAGGTAC | AATCCACTTT | TCAGTGT | GAGATTTCA | AAATGATTG | CTTAGCTCTT | 124800 | |
| GGCAATGCTA | AATTATGTT | CTTGC | GAACC | ACTATCCAGT | TTCTCTGGG | CCAAGTCCAC | 124860 |
| CTCCTGCTCC | GCAAGAGGAA | CAACTCCCAG | CTGGTGGTAC | CTGGCGGCAG | TGCTGGAGAA | 124920 | |
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| GTCAATTAAA | GCATTACAAA | GGAATCCAAT | TCTTGTGAA | GGTTTCAGAA | ATTCCCGTAA | 125160 | |
| AGGGTACATT | TCCGGAGAGG | AGGTGAGCAG | TATTCCCTCT | TTTTTTTTT | TTTTTTTTT | 125220 | |
| TTCCTAAAGA | GCTGAAGGTT | ATACGGAATT | GGGAATTAT | AATACCTTG | GAATCAATGC | 125280 | |
| CTTGT | GGAAAATAAA | CACAGCCTTC | AGGTTATGAA | AACCAGATGT | AGAAGAGGAC | 125340 | |
| AAGTTTAAA | AATTAAAGTC | CAAGCCGGCG | CAGTGGGCT | CCCCTGTAAT | CCCAGCTACT | 125400 | |
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| AGCTGATTAT | ATACATACAC | ATATATTTT | ATATATGCAG | AGAGAGAAAAT | GATGCAAGCA | 128100 |
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| CTAAACCTGG | AAGCCTGGGG | TTTGTCCAGT | CAAGCCATGG | TAGCCATAGT | TTTAAAGGAT | 128220 |
| GTTCCTGATG | CAGTTATGTG | TTCCAGTTAA | GTACATCTAG | CTTCAGAACT | CAGCTGGAAA | 128280 |
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| AGTTTTCATC | CAGGATTCT | TGAGGAATTA | CACAAGTACC | CAGCTGGCT | TAATTTAAAA | 128520 |
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| TCTCGGCTCA CCACAACCTC CGCCTCCAG GTTCAAGCGA TTCTCCTGTC TCAGCTTCCC | 190680 |
| GAGTAGCTGG AATTACAGGT GCATGCCACC ACACCCAGCT AATTTTTTT TTTTGAGATG | 190740 |
| AAGTCTTGT CTTGTCTCCC ATGCTGGAGT GTGATGGCAC GATCTTAGCT CACTGCAACC | 190800 |
| TACGCCTCCC GGGTTCAAGC GATTCTCCTG CCTCAGCCTC TAATGTAGCT GGGATTACAG | 190860 |
| TTGCCTGCTA TCACGCCCGG CTAATTTTG TATTTTTAGT AAAGACGGGG TTTCACCATG | 190920 |
| TTGGCCAGGC TGGTCTCGAA CCCCTGATCT CAGGTGATCT GCCTTCCTCG GCCGCCAAA | 190980 |
| GTCGCTGGGAT TACAAGCGTG AGCCACTGAG CCGGGCCAAT TTTGCATTT TACATAGATG | 191040 |
| AATTATATGG TATGCTAATT ATATCTTACCA AAAAATTGAA AAAAAGGAAT AGTACTATCA | 191100 |

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|-------------|--------------|------------|------------|------------|-------------|--------|
| GCCCCAATGT | GCCCACATCATC | AATATTCTAC | ATGTTTCCAA | TGTTATTGTA | TCTGTTGCC | 191160 |
| TACAGTCGAG | GCCCTGATAT | CCTGTTGAT | TTTCTTGAAT | TGCCAAAATT | TGCATACATG | 191220 |
| CTTACAAAAAA | TAATGCCTGT | TGAATTGCT | AGATATGTAA | AGGTTGGAG | CAAATCAGGT | 191280 |
| GTATTAAATT | TATTAATATT | GTGAAATG | TCTAAGGCAA | TAATTCCAA | ACTTCGTTGA | 191340 |
| GGGAGAAGGA | AAGCTTTAA | AATCCCATTG | CCCAGGTGGC | ATCCCATACT | GTTACTGGGA | 191400 |
| ATTATGCATT | GGGATGGATC | CTTTAACCGA | GGAGATTATT | ATAGCCGGAG | CTCTGAACCA | 191460 |
| GCAATCTCAG | TTCTTGTGAT | AGTGAGCAA | GAACACACAA | CTAACACCAA | AATGCAAGCT | 191520 |
| TAAAGCAAAG | TTTATTGAAG | CACAATAATA | CACTCTGAGG | GACAGCGGGC | TTATTTCTGC | 191580 |
| GAAGTGAAC | CAGCACTTCT | TTACAGAGCT | CAAGGTGCTT | TTATGGGTT | TGTGGGGAGG | 191640 |
| AGTTGAGGTT | TGGGCTGTAT | CTGAGTGACA | GGATGATGTT | ATTTGATTGA | AGTGTATAGC | 191700 |
| TATACAATCT | AAAATTAAAC | TGTGCATGGT | CTTACCTATA | ATTTGTTAAC | AAAAGCCTCC | 191760 |
| CAGGGATGGG | GGGGCAAAAC | TGTATGTAAA | TTCTATTATA | ATGATGGCAT | GATGAACCTG | 191820 |
| GGGTGAAC | TT | GAAGACAGGC | TTTTGTGTTG | TTGGGCATGT | GCCACCTTAG | 191880 |
| CCTGTACCC | CTTTCTCTT | TCTCCAGGAT | ATTTGGCCA | CAGACTTAT | CATAAACTCC | 191940 |
| ATCCCCTAGG | GTGGCATTAG | GGTAGTCTTG | GGCCTGAATT | TAGGTGGGCC | AGTGGCTGTC | 192000 |
| TTAGTGACAG | CCTTCCGCT | CTCTTCTGTC | ATCCCCTCCC | AACTGCTAAT | GTCTAACTAC | 192060 |
| CTAACAAATTA | CCCATTAAAT | CAGTGTGCT | GGGGTTAGGA | GCAGGCCTCA | ATATGTTAA | 192120 |
| TCATTCTCCA | GATAATCCC | ATACTGTAAA | GTGAAAGGAA | CACTTGTCA | ATAATTCAAT | 192180 |
| TATGAAGGCT | GTGGAAGGTG | TTTCAGTAGG | ATCTAATTGG | TTAATGTTAT | GACTTAATTA | 192240 |
| ATTTGAATCA | AAAAACAAAA | TGAAAAAGCT | TTATATTCT | AAGTCAAATA | AGACATAAGT | 192300 |
| TGGTCTAAGG | TTGAGATAAA | ATTTTAAAT | GTATGATTGA | ATTTGAAAAA | TCATAAAATAT | 192360 |
| TTAAATATCT | AAAGTTCAGA | TCAGAACATT | GCAGCTAC | TTTCCCCAAT | CAACAAACACC | 192420 |
| CCTTCAGGAT | TTAAAAACCA | AGGGGGACAC | TGGATCACCT | AGTGTTCAC | AAGCAGGTAC | 192480 |
| CTTCTGCTGT | AGGAGAGAGA | GAACAAAGT | TCTGAAAGAC | CTGTTGCTT | TCACCAAGGAA | 192540 |
| GTGTTACTGG | GCATCTCCTG | AGCCTAGGCA | ATAGCTGTAG | GGTGAATTCT | GGAGCCATCC | 192600 |
| CCGTTCCCC | GCCCCC | AGAAGCGGAG | ATTTAACGGG | GACGTGCGGC | CAGAGCTGGG | 192660 |
| GAAATGGGCC | CGCGAGCCAG | GCCGGCGCTT | CTCCTCCTGA | TGCTTTGCA | GACCGCGGTC | 192720 |
| CTGCAGGGGC | GCTTGCTGCG | TGAGTCCGAG | GGCTGCGGGC | GAACTAGGGG | CGCGGCGGGG | 192780 |
| GTGGAAAAAT | CGAAACTAGC | TTTTCTTTG | CGCTTGGAG | TTTGTAACT | TTGGAGGACC | 192840 |
| TGCTCAACCC | TATCCGCAAG | CCCCTCTCCC | TACTTCTGC | GTCCAGACCC | CGTGAGGGAG | 192900 |
| TGCCTACCAC | TGAAC | TGCAAG | ATAGGGGTCC | CTCGCCCCAG | GACCTGCC | 192960 |

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| TGTCCCGGCT | CTGCGGAGTG | ACTTTGGAA | CCGCCCACTC | CCTTCCCCA | ACTAGAATGC | 193020 |
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| TGGAACTCGG | GTTTATTTC | AATGTCAGCT | GTGCAGTTT | TTCCCCAGTC | ATCTCCAAAC | 193140 |
| AGGAAGTTCT | TCCCTGAGTG | CTTGCCGAGA | AGGCTGAGCA | AACCCACAGC | AGGATCCGCA | 193200 |
| CGGGGTTTCC | ACCTCAGAAC | GAATGCGTTG | GGCGGTGGGG | GCGCGAAAGA | GTGGCGTTGG | 193260 |
| GGATCTGAAT | TCTTCACCAT | TCCACCCACT | TTTGGTGAGA | CCTGGGTGG | AGGTCTCTAG | 193320 |
| GGTGGGAGGC | TCCTGAGAGA | GGCCTACCTC | GGGCCTTCC | CCACTCTTGG | CAATTGTTCT | 193380 |
| TTTGCCTGGA | AAATTAAGTA | TATGTTAGTT | TTGAACGTTT | GAACTGAACA | ATTCTCTTTT | 193440 |
| CGGCTAGGCT | TTATTGATTT | GCAATGTGCT | GTGTAATTAA | GAGGCCTCTC | TACAAAGTAC | 193500 |
| TGATAATGAA | CATGTAAGCA | ATGCACTCAC | TTCTAAGTTA | CATTCAATATC | TGATCTTATT | 193560 |
| TGATTTCAC | TAGGCATAGG | GAGGTAGGAG | CTAATAATAC | GTTCATTTA | CTAGAAGTTA | 193620 |
| ACTGGAATTC | AGATTATATA | ACTCTTTCA | GGTTACAAAG | AACATAAATA | ATCTGGTTTT | 193680 |
| CTGATGTTAT | TTCAAGTACT | ACAGCTGCTT | CTAATCTTAG | TTGACAGTGA | TTTGCCCTG | 193740 |
| TAGTGTAGCA | CAGTGTCTG | TGGGTCACAC | GCCGGCCTCA | GCACAGCACT | TTGAGTTTG | 193800 |
| GTACTACGTG | TATCCACATT | TTACACATGA | CAAGAATGAG | GCATGGCACG | GCCTGCTTCC | 193860 |
| TGGCAAATT | ATTCAATGGT | ACACTGGGCT | TTGGTGGCAG | AGCTCATGTC | TCCACTTCAT | 193920 |
| AGCTATGATT | CTTAAACATC | ACACTGCATT | AGAGGTTGAA | TAATAAAATT | TCATGTTGAG | 193980 |
| CAGAAATATT | CATTGTTAC | AAAGTGTAAAT | GAGTCCCAGC | CATGTGTTGC | ACTGTTCAAG | 194040 |
| CCCCAAGGGA | GAGAGCAGGG | AAACAAGTCT | TTACCCCTTG | ATATTTGCA | TTCTAGTGGG | 194100 |
| AGAGATGACA | ATAAGCAAAT | GAGCAGAAAG | ATATACAACA | TCAGGAAATC | ATGGGTGTTG | 194160 |
| TGAGAAGCAG | AGAAGTCAGG | GCAAGTCACT | CTGGGCTGA | CACTTGAGCA | GAGACATGAA | 194220 |
| GGAAATAAGA | ATGATATTGA | CTGGGAGCAG | TATTCCCAG | GCAAACGTAG | TGGGCCTGGC | 194280 |
| AAGTTGGATT | AAAAAGCGGG | TTTTCTCAGC | ACTACTCATG | TGTGTGTGTG | TGGGGGGGGG | 194340 |
| GGCGGGCGTG | GGGGTGGGAA | GGGGACTAC | CATCTGCATG | TAGGATGTCT | AGCAGTATCC | 194400 |
| TGTCCCTCCCT | ACTCACTAGG | TGCTAGGAGC | ACTCCCCAG | TCTTGACAAC | CAAAAATGTC | 194460 |
| TCTAAACTTT | GCCACATGTC | ACCTAGTAGA | CAAACCTCTG | GTAAAGAAGC | TCGGGTTGAA | 194520 |
| AAAAATAAAC | AAGTAGTGCT | GGGGAGTAGA | GGCCAAGAAG | TAGGTAATGG | GCTCAGAAGA | 194580 |
| GGAGCCACAA | ACAAGGTTGT | GCAGGCGCCT | GTAGGCTGTG | GTGTGAATTG | TAGCCAAGGA | 194640 |
| GTAACAGTGA | TCTGTCACAG | GCTTTAAAAA | GATTGCTCTG | GCTGCTATGT | GGAAAGCAGA | 194700 |
| ATGAAGGGAG | CAACAGTAAA | AGCAGGGAGC | CCAGCCAGGA | AGCTGTTACA | CAGTCCAGGC | 194760 |
| AAGAGGTTAGT | GGAGTGGGCT | GGGTGGGAAC | AGAAAAGGGA | GTGACAAACC | ATTGTCTCCT | 194820 |

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 GGGCAGGACC ACCTTGAATT CTGCCCTGAC ACACCTGGATT GGAGAGCAGC AGAACCCAGG 196680

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|------------|------------|-------------|------------|------------|------------|--------|
| GCCTGGCCA | CCAAGCTGGA | GTGGAAAGG | CACAAGATT | GGGCCAGGCA | GAACAGGGCC | 196740 |
| TACCTGGAGA | GGGACTGCC | TGCACAGCTG | CAGCAGTTGC | TGGAGCTGGG | GAGAGGTGTT | 196800 |
| TTGGACCAAC | AAGGTATGGT | GGAAACACAC | TTCTGCCCT | ATACTCTAGT | GGCAGAGTGG | 196860 |
| AGGAGGTTGC | AGGGCACGGA | ATCCCTGGTT | GGAGTTTCAG | AGGTGGCTGA | GGCTGTGTGC | 196920 |
| CTCTCCAAAT | TCTGGGAAGG | GACTTCTCA | ATCCTAGAGT | CTCTACCTTA | TAATTGAGAT | 196980 |
| GTATGAGACA | GCCACAAGTC | ATGGGTTAA | TTTCTTTCT | CCATGCATAT | GGCTCAAAGG | 197040 |
| GAAGTGTCTA | TGGCCCTTGC | TTTTTATT | ACCAATAATC | TTTGTTAT | TTATACCTGT | 197100 |
| TAAAAATTCA | GAAATGTCAA | GGCCGGGCAC | GGTGGCTCAC | CCCTGTAATC | CCAGCACTTT | 197160 |
| GGGAGGCCGA | GGCGGGTGGT | CACAAGGTCA | GGAGTTTGAG | ACCAGCCTGA | CCAACATGGT | 197220 |
| GAAACCCGTC | TCTAAAAAAA | TACAAAAAATT | AGCTGGTCAC | AGTCATGCGC | ACCTGTAGTC | 197280 |
| CCAGCTAATT | GGAAGGCTGA | GGCAGGAGCA | TCGCTTGAAC | CTGGGAAGCG | GAAGTTGCAC | 197340 |
| TGAGCCAAGA | TCGCGCCACT | GCAC | CTAGGCAGCA | GAGTGAGACT | CCATCTTAAA | 197400 |
| AAAAAAAAAA | AAAAAAAAGA | GAGAATTCA | AGATCTCAGC | TATCATATGA | ATACCAGGAC | 197460 |
| AAAATATCAA | GTGAGGCCAC | TTATCAGAGT | AGAAGAATCC | TTTAGGTTAA | AAGTTCTTT | 197520 |
| CATAGAACAT | ACCAATAATC | ACTGAAGCTA | CCTATCTTAC | AAGTCCGCTT | CTTATAACAA | 197580 |
| TGCCTCCTAG | GTTGACCCAG | GTGAAACTGA | CCATCTGTAT | TCAATCATT | TCAATGCACA | 197640 |
| TAAAGGGCAA | TTTTATCTAT | CAGAACAAAG | ACATGGGTA | ACAGATATGT | ATATTTACAT | 197700 |
| GTGAGGAGAA | CAAGCTGATC | TGACTGCTCT | CCAAGTGACA | CTGTGTTAGA | GTCCAATCTT | 197760 |
| AGGACACAAA | ATGGTGTCTC | TCCTGTAGCT | TGTTTTTTTC | TGAAAAGGGT | ATTTCCTTCC | 197820 |
| TCCAACCTAT | AGAAGGAAGT | GAAAGTTCCA | GTCTCCTGG | CAAGGGTAAA | CAGATCCCCT | 197880 |
| CTCCTCATCC | TTCCCTTTTC | CTGTCAAGTG | CCTCCTTGG | TGAAGGTGAC | ACATCATGTG | 197940 |
| ACCTCTTCAG | TGACCACTCT | ACGGTGTGG | GCCTTGA | ACTACCCCCA | GAACATCACC | 198000 |
| ATGAAGTGGC | TGAAGGATAA | GCAGCCAATG | GATGCCAAGG | AGTCGAACC | TAAAGACGTA | 198060 |
| TTGCCCAATG | GGGATGGGAC | CTACCAGGGC | TGGATAACCT | TGGCTGTACC | CCCTGGGAA | 198120 |
| GAGCAGAGAT | ATACGTGCCA | GGTGGAGCAC | CCAGGCCTGG | ATCAGCCCT | CATTGTGATC | 198180 |
| TGGGGTATGT | GACTGATGAG | AGCCAGGAGC | TGAGAAAATC | TATTGGGGGT | TGAGAGGAGT | 198240 |
| GCCTGAGGAG | GTAATTATGG | CAGTGAGATG | AGGATCTGCT | CTTTGTTAGG | GGGTGGGCTG | 198300 |
| AGGGTGGCAA | TCAAAGGCTT | TAAC | TTCTGTTTT | AGAGCCCTCA | CCGTCTGGCA | 198360 |
| CCCTAGTCAT | TGGAGTCATC | AGTGGATTG | CTGTTTTGT | CGTCATCTTG | TTCATTGGAA | 198420 |
| TTTTGTTCAT | AATATTAAGG | AAGAGGCAGG | GTTCAAGTGA | GTAGGAACAA | GGGGAAAGTC | 198480 |
| TCTTAGTACC | TCTGCC | CAGGGCAG | GGCACAGTGG | GAAGAGGGC | AGAGGGGATC | 198540 |

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|------------|-------------|------------|------------|-------------|-------------|--------|
| CATTTCTTT | TTAAATGAAG | AAAGTGAAGT | AGGCCGGCA | CGGTGGCTCA | CGCCTGTAAT | 200460 |
| CCCAGCACTT | TGGGAGGCCA | AAGCGGGTGG | ATCACGAGGT | CAGGAGATCG | AGACCACCT | 200520 |
| GGCTAACATG | GTGAAACCCC | ATCTCTAATA | AAAATACAAA | AAATTAGCTG | GGCGTGGTGG | 200580 |
| CAGACGCCTG | TAGTCCCAGC | TACTCGGAAG | GCTGAGGCAG | GAGAATGGCA | TGAACCCAGG | 200640 |
| AGGCAGAGCT | TGCAGTGAGC | CGAGTTGCG | CCACTGCACT | CCAGCCTAGG | TGACAGAGTG | 200700 |
| AGACTCCATC | TCAAAAAAAT | AAAAATAAAA | ATAAAAAAAT | GAAAAAAAAG | AGAAAGTGAA | 200760 |
| GTATAGAGTA | TCTCATAGTT | TGTCAGTGAT | AGAAACAGGT | TTCAAACCTCA | GTCAATCTGA | 200820 |
| CCGTTTGATA | CATCTCAGAC | ACCACTACAT | TCAGTAGTTT | AGATGCCTAG | AATAAATAGA | 200880 |
| GAAGGAAGGA | GATGGCTCTT | CTCTGTCTC | ATTGTGTTTC | TTCTGAGTGA | GCTTGAATCA | 200940 |
| CATGAAGGGG | AACAGCAGAA | AACAACCAAC | TGATCCTCAG | CTGTCATGTT | TCCTTTAAAAA | 201000 |
| GTCCCTGAAG | GAAGGTCCTG | GAATGTGACT | CCCTTGCTCC | TCTGTTGCTC | TCTTGGCAT | 201060 |
| TCATTTCTTT | GGACCCCTACG | CAAGGACTGT | AATTGGTGGG | GACAGCTAGT | GGCCCTGCTG | 201120 |
| GGCTTCACAC | ACGGTGTCT | CCCTAGGCCA | GTGCCTCTGG | AGTCAGAACT | CTGGTGGTAT | 201180 |
| TTCCCTCAAT | GAAGTGGAGT | AAGCTCTCTC | ATTTGAGAT | GGTATAATGG | AAGCCACCAA | 201240 |
| GTGGCTTAGA | GGATGCCAG | GTCCTTCAT | GGAGCCACTG | GGGTTCCGGT | GCACATTAAA | 201300 |
| AAAAAAATCT | AACCAGGACA | TTCAGGAATT | GCTAGATTCT | GGGAAATCAG | TTCACCATGT | 201360 |
| TCAAAAGAGT | CTTTTTTTTT | TTTTGAGAC | TCTATTGCC | AGGCTGGAGT | GCAATGGCAT | 201420 |
| GATCTCGGCT | CACTGTAACC | TCTGCCTCCC | AGGTTCAAGC | GATTCTCCTG | TCTCAGCCTC | 201480 |
| CCAAGTAGCT | GGGATTACAG | GCGTGCACCA | CCATGCCGG | CTAATTTTG | TATTTTAGT | 201540 |
| AGAGACAGGG | TTTCACCATG | TTGCCAGGC | TGGTCTCGAA | CTCTCCTGAC | CTCGTGATCC | 201600 |
| GCCTGCCTCG | GCCTCCAAA | GTGCTGAGAT | TACAGGTGTG | AGCCACCTG | CCCAGCCGTC | 201660 |
| AAAAGAGTCT | TAATATATAT | ATCCAGATGG | CATGTGTTA | CTTTATGTTA | CTACATGCAC | 201720 |
| TTGGCTGCAT | AAATGTGGTA | CAAGCATTCT | GTCTGAAGG | GCAGGTGCTT | CAGGATACCA | 201780 |
| TATACAGCTC | AGAAGTTCT | TCTTAGGCA | TTAAATTTA | GCAAAGATAT | CTCATCTCTT | 201840 |
| CTTTAAACC | ATTTTCTTTT | TTTGTGGTTA | GAAAAGTTAT | GTAGAAAAAA | GTAAATGTGA | 201900 |
| TTTACGCTCA | TTGTAGAAAA | GCTATAAAAT | GAATACAATT | AAAGCTGTTA | TTTAATTAGC | 201960 |
| CAGTGAAAAA | CTATTAACAA | CTTGTCTATT | ACCTGTTAGT | ATTATTGTTG | CATTAaaaAT | 202020 |
| GCATATACTT | TAATAAATGT | ATATTGTATT | GTACTTGCA | TGATTGTTATT | GAAGTTCTTG | 202080 |
| TTCATCTTGT | GTATATACTT | AATCGCTTG | TCATTTGGA | GACATTATT | TTGCTTCTAA | 202140 |
| TTTCTTTACA | TTTTGTCTTA | CGGAATATTT | TCATTCAACT | GTGGTAGCCG | AATTAATCGT | 202200 |
| TTTCTTCAC | TCTAGGGACA | TTGTCGTCTA | AGTTGTAAGA | CATTGGTTAT | TTTACCAGCA | 202260 |

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| AACCATTCTG AAAGCATATG ACAAATTATT TCTCTCTTAA TATCTTA CTA | TACTGAAAGC | 202320 |
| AGACTGCTAT AAGGCTTCAC TTACTCTTCT ACCTCATAAG GAATATGTTA CAATTAATT | TT | 202380 |
| ATTAGGTAAG CATTGTTTT ATATTGGTTT TATTCACCT GGGCTGAGAT TTCAAGAAC | C | 202440 |
| ACCCCAGTCT TCACAGTAAC ACATTCACT AACACATTAA CTAAACATCA GCAACTGTGG | C | 202500 |
| CCTGTTAATT TTTTAATAG AAATTTAAG TCCTCATTTC CTTTCGGTGT TTTTAAGCT | C | 202560 |
| TAATTTTCT GGCTTTATTC ATAAATTCTT AAGGTCAACT ACATTTGAAA AATCAAAGAC | C | 202620 |
| CTGCATTTA AATTCTTATT CACCTCTGGC AAAACCATTAC ACAAAACCAG GTAGTAAAGA | C | 202680 |
| GAAGGGTGAC ACCTGGTGGC CATAGGTAAA TGTACCACGG TGGTCCGGTG ACCAGAGATG | C | 202740 |
| CAGCGCTGAG GGTTTCCTG AAGGTAAAGG AATAAAGAAT GGGTGGAGGG GCGTGCAGTG | C | 202800 |
| GAAATCACTT GTAGAGAAAA GCCCCTGAAA ATTTGAGAAA ACAAAACAAGA AACTACTTAC | C | 202860 |
| CAGCTATTG AATTGCTGGA ATCACAGGCC ATTGCTGAGC TGCGTAACT GGGAACACAA | C | 202920 |
| CAGAAGGAAA ACAAAACCACT CTGATAATCA TTGAGTCAAG TACAGCAGGT GATTGAGGAC | C | 202980 |
| TGCTGAGAGG TACAGGCCAA AATTCTTATG TTGTATATA ATAATGTCAT CTTATAATAC | C | 203040 |
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| AGAAAGAGTA AAACATCCAT ACATAATGGG TAAACTTTGT CCACATACCA GAATGTTACT | 232320 |
| AATGGCTTTC TAACCTCTGA AGAATTAAAG GGAAGGAGGA AAGGTAATT TCCCCAGGGA | 232380 |
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| CCAGCATGGT | GCCTGACGCT | GCCTGGAAA | TAGTAGTCAC | CCGAGAAATG | GCTGATGAAT | 244620 |
| TCATGAGGCC | TACTCTGTAT | GGAAATTCA | ATTCTGGCCC | CGAATTTC | GGAGCTGGCA | 244680 |
| AGAGAGCCAC | CTTAATATCA | TAGGCTGAGT | TGGAAGAAGG | GAACACCAA | TTTATTCTTA | 244740 |
| AGAAGTACTT | TGCCAGGTA | CTGTGGCTTA | GGCCAGTAAT | CCTAGCATT | GGGAAGGCC | 244800 |
| AGTTGGCAG | ATGGCTTGAA | CCCAGGATT | CGAGATCAGC | CTGGACAAACA | TGGAGAAACC | 244860 |
| CCATCTCTAC | AAAATATGTA | AAATTAACT | GCTTGGTGGG | CCTGCACCTTC | TGGTCCCAGC | 244920 |
| TACTCCAGGG | CTAGGGTGGG | AGGATTGTTT | GATCCCTGGA | GGTCAAGGCT | GCAGTGAGCC | 244980 |
| ATGATCACAG | CAATGCGCTC | CAGCTCTGGG | CAACAGAGCG | AGACCCTGTC | TCAAAAAAAA | 245040 |

CAAAAATGCC TATAACAATAA ATCTATAAAA AGTGGGTTTT GTGTGTCTAT ACACACACAC 245100
 ACACACACAC ACCTGCATAG ACACTCAGGT GTTCTGGAAA GACACAGGAA TCTGAAGCCA 245160
 AAATACTTGT GATTTTTTT CAGCTCTGCC ACTCACCAAA TGTCTGATGG GATTAGTTAC 245220
 CTGCCATCTC AGAATTCTC TTCTGTAAAA TAAGGTAATA GTACCTCCCA GAGTTATGAA 245280
 AAACTATCAA ATGAGATGGC AGATGAGAAA ACACTATATT CCTTGTAAAA CCTGACAAAT 245340
 ATGTGCAAGA TTATATAAAG ACTGTCTTCT GTCCATTTC AAATGTGGAA AAGTGAAAGC 245400
 AGGACAGGAT GTTGGGATT CTGTCAGAGA TTTGCTGGCT TCCACCTGCA GAAATTGAAG 245460
 TAATTGGGGT TCTTACACCT AAGTACTAAC TGAGTCTGGT TGCAGTTGC CCCCATGGCT 245520
 ACATGAAGCT TTTAGAAGAG TCAGCATGGT AGACATGGAA TGTTGAATGG TGGTGGAGTG 245580
 TACCCACACA CCTCCCACCA AGTCAGCTCC AGGTCAGAA GCAGCAGCCC CAGTGGAAGG 245640
 CATGCGTGTGTT TGTAACTCAG CTGAGCCACC TTTCAAGAAG CAGAAGCTTT CCAAACAGGG 245700
 ATGCCCTCTG CTTTGGTTC AACTTGACTT CCTACCTTCA GTGAGGACAT GGAGAATTCA 245760
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 AGACAGGCC TGTGGAAGGA AAGAATGAAA GAGGACAGAA AGAAACTCCC ATTTTCTTTA 245880
 GCACAGTCCC TTCAGATTAA GGATGAAGAG GCTGGGGITC TGAATTGGTT GGCCTTAGGT 245940
 AATGGTCACA AAAACAAGTC AATGGCTTT CCACATCCGT ACATTGAGAT ATATTCTGC 246000
 CCTTGGTATT CATTTCCTCT GACCTCCAAT TAAAGATCTA TGCAGTCATT TAAAGCCTTC 246060
 CTTCTTTCT ACTCTGTGGT CAGCGTAACA TTGGTGGTTT GAAACTGGCC ATAATAGCAG 246120
 CATTACATC ATGGGAACTA GCATATGTTA CATCAGGGTT TTTTGTTTTT GTTCTGGAG 246180
 AGCCAGTAAA CATAACATCGT CACACCACTT AAATATTCTC TGCTTAAATA TTCTCTGCTC 246240

(2) INFORMATION FOR SEQ ID NO:22:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..246240
- (D) OTHER INFORMATION: /note= "HLA-H.CONTIG"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

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|------------------------------------------------------------------|-----|
| TTTGTAAGTA TTCTATTTA TTTATATGTG TTTGTGTTTC TGAGTATGTC CTGAGTTGCA | 60 |
| CGATAATACT ATATTCTTA TTGGGTAACA TTGTCAGAAA AGTTTCTAAA AACCTTCTCT | 120 |

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|-------------|-------------|-------------|------------|-------------|--------------|------|
| GCTGCACTTA | TTTATACAT | TTTATTATG | TTAATAATCT | CACATTAAAC | ACACTTATGA | 180 |
| TTTATTCTCA | ACAGAAAAAG | GTGGTATTTC | TTTCATTTAG | TCTTTAAAAA | AGCTCACATT | 240 |
| ATCAAATGAT | TGCTCAATCA | TTTAATCTCT | TTGCTTCTCT | TATATGCATT | GATTTAATAA | 300 |
| ATATGTATAC | TAGTTCTCC | ATCGATTCTT | TAGATTGAA | ACTTATTTC | CTTTTATTCT | 360 |
| TACAAAAC TG | ACTTGTCTAT | AGGCCACTT | CTACTTCCTT | TATTCTATCA | TCTTCCTCAA | 420 |
| CTTATTCTGT | GGTCAAAGAA | TGGAGAAATA | ATATTAATAA | TATGTTTTC | TCATCAATGA | 480 |
| CTTCCACCTG | TTCTCTGAGA | AATTCAAGCTT | CAAGAACCTT | AGTTTGATAT | GACTGCAAAG | 540 |
| ATAATACACA | GTCTAAATCA | TAAAAATGTC | TCAAAGGTTT | TTTTTTTATT | TGTTTCTTTG | 600 |
| AAATATCCAT | GAACAGGCAT | GTTTCTCCCC | CTGTAGTGCA | ATTTGTGTGA | AATTCTGGCA | 660 |
| TGCACCTAAC | AGGATGTCT | AAAATACCA | TATTAATTG | ATTCTAAGTC | ATGTATTGTA | 720 |
| TCACATTTT | GCCCAGGGAT | TGTTGAAATC | CATGGACAAA | ACTGATAGCA | TTTTAGAACT | 780 |
| TCCTTGCT | AGTGGCAGTC | TTGATATATT | CACACTATCT | ATTGACAAAAA | AATCTAAAGC | 840 |
| ACCAGGCTCA | AAGCTTGTAG | AGTAGGTGTC | AGTGATTTGG | AGGACATCTC | TAGGGCAATA | 900 |
| GTAGAGGCAT | TTTTAACCCC | TAACAACAA | ATGATCATCA | GAAGTGAGTG | ATATCCTCAC | 960 |
| TCATGACCCC | AACTGCTCTA | ATTTCTATTG | TTTCTTGCA | GAAATGAGAG | CAGGTGGGGT | 1020 |
| CATGGGTGAG | GAATGAGGTG | TTGAAAGTGA | ATGGGGTGTT | GAAAGCAAGG | TGTTTAGCAG | 1080 |
| TGTTCTGAAA | GCATACATTT | AAGTAGGCTA | TCCGGGCACT | GTCAATAGCT | AAGTGTCAAG | 1140 |
| CTAAGTACTC | TATTTTATTC | TAAGAACTAT | TTTTAGAAAT | GCTGAATCAA | CAAATCTCAG | 1200 |
| ATGGCACAGA | GGTTGTCATT | TTTGAATAAT | ATGAATATCA | GTAATTAG | TTGGAAAAGA | 1260 |
| AGATTTCAA | AGAGCCATCT | AAGTTCCAA | AATAAGTGT | GCAGTCATAT | TAACATTATTAT | 1320 |
| ATTTTCCTGC | CTGTTGATCT | ACTGCCTGTG | AATTGCTTAT | CAAACCAACA | ACCAACTGGA | 1380 |
| ATACATAGAC | TGCATGTCTT | GTTCATTCC | TGCATTCTCA | AGTAATGGTT | TAACAAACTC | 1440 |
| ATGAGCTTAC | TCTTTAATCT | GAACCATGCT | TAACTTCAAT | TATGTTGATT | TAGTCTAAGG | 1500 |
| ATGCAGAATT | TATTTTATAG | TTATGTAGGA | ACTGGAATCC | AAAATGTAAT | ATGCCTCCAA | 1560 |
| GCTTTCTT | GTTGGCCTCT | GAAGGAGCAT | CACCTCTACA | ACTTCAACGT | TGTTATGAAT | 1620 |
| ACCTCTGGGG | AGGTGTTCAC | CTCAGGACCC | AAATTGGAA | AAAGGGAAGT | GCCACTTTGG | 1680 |
| AGGAGTGCTC | TGAGCAGCTG | ATCCATTAAA | TGTCCCGATC | ACATGCACGT | GGAAGTGTCA | 1740 |
| TTGCAATATC | TGCACTAACAA | GAAGCTCAGT | GACTTGAGAA | GTGAGTCTGG | AATTCTAAGA | 1800 |
| AAAAGGCAAG | GCATCTCTCT | TGCCACTTGT | TATTTTCCA | GTCAAGCAAC | TGTGATAAGA | 1860 |
| GGGCATGGAG | AGCAGGAAGA | AGTAAAAAAT | CCCAGGAAAG | TCTGGAGTGG | AATCATTAAA | 1920 |
| CCAATTCTGC | TCCCTCTCTA | GGCCAACTTG | GGCCTATTAT | GAATAAGGAG | GTCTCTTATA | 1980 |

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|-------------|-------------|------------|------------|------------|-------------|------|
| ATCCATCTAA | CTCCACTCAG | GAACAATTG | GGGATCTGAG | ACTGTGAAC | CAGTGGCAA | 2040 |
| AAAAATATT | CTTGGCCTAT | CATTATTCTC | TGTAGGATGT | TAAGGACAGG | TTTCTGTATG | 2100 |
| TGGAGTCCTC | AGTTTTGCC | TTCTCTCCTT | GAGATATT | TATGCTATT | AGTAATTGAT | 2160 |
| GGCCACAGTT | GATCGACCAC | ATTCTGGC | AACTCTAATA | ATCCTGTTA | TATTAATCAT | 2220 |
| TGGACCAATC | TTGATTGTGT | ATGACCATCA | TCTTAGCT | ACCACCTCTA | TGTGGATGCT | 2280 |
| CTCCTCACCC | TGCTTAAGTG | CCAATGTCTG | TGCTATGGC | CTACCTGTCA | CATGGATAAT | 2340 |
| CTCTTCACTC | CAGTCAGGCT | CCAACATTAA | CACAGGGCTG | TTCTCTGTC | CCCCTTGAA | 2400 |
| GACAGCTTCA | TCACCCATT | CAAGTTGCAG | TACTCTCACT | GGGCCTCCAC | TGTTGCCTCT | 2460 |
| CTCTCACTCT | GCTTAGGTTT | CTTCACTCCA | CTCCAGGCAA | CTGTCACTAA | ACATCCTTTC | 2520 |
| CCCCATATAT | AACACAGACA | TCTACCTTGC | TTGGCCAAAC | CCACTGGATT | TCAGACTCAC | 2580 |
| TCATTCAAGAG | AGTAAGACAG | AGAGGGTTC | ATTTTTATT | TTATTTTATT | TTTTATTTTT | 2640 |
| TGAGACGTG | TCTCACCCCTG | TCGCCAGGC | TGGAGTGCAG | TGGTGCAGTC | TTGGCTCACT | 2700 |
| GCAATCCCCA | CGTCCCAGGT | TCAAACGATT | CTCCTGCCTC | AGTCTCCAA | GCAGCTGGGA | 2760 |
| TTACAGGTGC | CTGCCACCAT | GCCCAGCTAA | TTTTGTATT | TTTAGTAGAG | ACAGGGTTTC | 2820 |
| GCCGTGTTGG | CCAGGCTGGT | CTCGAACTCC | TGACCTCAAG | TGATCTACCC | GCCTCGGCCT | 2880 |
| CCCAAAGTGC | TGGGATTACA | GGTGTGAGCC | ACTGCGCCCA | GCCGGGGTTC | ATCCTTAATA | 2940 |
| CATACATTAG | AGATATAGAT | TCTGTTTTA | TCTAAAAAGT | CTTTATAAGG | CCGGGCGCGG | 3000 |
| TGGCTCACCG | CTGTAATCCC | AGCACTTGG | GAGGCCGAGG | CGGGCGGATC | ACGAGGTCAG | 3060 |
| GAGATCGAGA | CCATCCCGGC | TAAAACGGTG | AAACCCGTC | TCTACTAAA | ATACAAAAAA | 3120 |
| TTAGCCGGGC | GTAGTGGCGG | GCGCCTGTAG | TCCCAGCTAC | TTGGGAGGCT | GAGGCAGGAG | 3180 |
| AATGGCGTGA | ACCCGGGAGG | CGGAGCTTGC | AGTGAGCCGA | GATCCGCCA | CTGCACTCCA | 3240 |
| GCCTGGCGA | CAGAGCAAGA | CTCCGTCTCA | AAAAAAAAAA | AAAAAAAAAA | AAAAAAAAAGT | 3300 |
| CTTTATAAAA | ATCTGATTGA | ATGGTTGAAT | GCTGTGCTAA | AATCTGCATA | ATATCTTACA | 3360 |
| ACACTTCTGT | GAATCACGAG | ACAGTTTG | ATGCTAAATG | TCAGTTAAC | GATCTAAAGG | 3420 |
| GACCAACATC | TGCTTCCCA | AATTATATGA | AAGAAGATCC | TGATCCCTCA | TCAGGTGAAA | 3480 |
| CTCACATCAG | ACAACAGTGT | CTGCATTCT | CCAAAACCG | CCTCAGCCCC | ATGCCACTT | 3540 |
| TCCAGGGTTA | TCCTGCCTAC | CAAGCACTCT | CTTCCTCAG | AAAAACTTGG | GGGAAAATGT | 3600 |
| AGAATAATAA | TTTTTGAAAG | TTCTGACCAA | CTTCTTGAAT | CACTCAGCAT | GTTTTGACT | 3660 |
| GCAGGTACAG | AAAACGCTGA | CTCAACAAAT | TTAAACACTA | TATAAATTTC | TTATCTCCCC | 3720 |
| AAACAGGACA | TCAAAGGCAG | AAAGGTTCCA | GAGCAGGGTG | ATCAGAGCTC | TGGCTCCACT | 3780 |
| GCCCTCAGTC | TTCTTGCCTC | TGCTCTCCTT | CACAGCAGGC | TTTACCCCCC | ATGCTGGTCA | 3840 |

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|---------------------------------------------------------------------|------|
| CAGTTTCAAG TGTCCATGCA GACACAAGTT AAAGGCAGGA AGAAACAGTG CGTTTCTCTT | 3900 |
| GGAGATCAAG GAATGCCTT CCAGAAAACT CCCCTTATG TCTCATTGTC CAAAACTTGG | 3960 |
| CCTAGTCTCA GGTGCTGCCT GAGCTAATCA GCTACAGAAG AAGGGACCAC ATGACTGGTG | 4020 |
| TGGACCAGTC AGAATTCAACC ACATGAAGCT AGTAATGTGG CTCACACTTC CCAGGGGGAT | 4080 |
| ATGGCCAGGT AGCAGACAGT GGATCGCTGA ACAGAATACT GATAGATTTC AGCACCAAGG | 4140 |
| TTAGAATGGC TACCACACCT AATCCCACCC TATCCCCGTT TCCTTCTTTA ATTTTTCCA | 4200 |
| TAGCACTTAT CAGTAGCTGA CAAACTGTAT ATGTTTTAC TTTTTTATTG TCTGTAGCTC | 4260 |
| CCAAGTAGAA TACAAACATC TGAAACTCAC TGTATCCATC CTGAGTAATG TTCTTTCAG | 4320 |
| CTCAGTCACA ATCATTTTT GATAGCCTAT CCTATAAGCT TAACTTATAG TGTTAACAG | 4380 |
| TATTAATACA TCTTAGTGGG AAAGAAGGAA AAAATAAACG ATCACACACA CACACACACA | 4440 |
| CACACACACA CACATACATT TACGTAACAG AGCAAGTGTG AAAATACCTA AAGGCTTTAT | 4500 |
| AGCTCCTTT GTCAATGGAT ACATGACAGC ATTTTGCA TTCTTTACTA CTCTTATTCT | 4560 |
| ATGCTCCATT TGTCTTCAGT CAGCACCTCA GCTGCCCTTA TGTTTTACTT GGTAAGGCAA | 4620 |
| ATTCCCTAAAT GAGCCTGGTA ATTAGTCATC CAGCTTATAG GAAGGTACTA TAGTTTTCA | 4680 |
| TTAACCTTTT CACTGGGCTT GAGAGTAGTA AGGACTCCC GAGAATTCCCT TGTGTTCCAA | 4740 |
| AAGTACTTCT CCTTGACATC TTGGTATAGG ATTAATAACT GTTTACCTTT GATAATCAGG | 4800 |
| AAGAATGACT CCAGCTAGTA CAGTTACGTG ATGCCTATAC ATTCCCTTTT TTCTGGAAA | 4860 |
| AATGTAATGT GAAATTAAGT GCAAAAACCA TGCCTTGTTC ATGTATGTAT CAAACACTTC | 4920 |
| TAGAGCTTTC CCAATACAGT TCTCTCTCA GCAAACAAGA GGACTATACC CTCATCCCCA | 4980 |
| CCCCTGCACT TAGGTGAGC CAATGTGTTG TAACTTAAAG AGGAGAGGGC ACTGGATGAA | 5040 |
| GGGAAATCTG TCTAACAAAGC TTCTTTATT CACCTAGTGG AAAAAAGCCT TAATCTGCAG | 5100 |
| TGGGGCAGTT TTCAGGACA TAGACTGAAT TGGCTCATGC ATTTATGGAA GATGAGGAGT | 5160 |
| CCCATGATCT GTAATCTGCA AGCTGGAGAC CCAGGAAAGC TGGTGGTATG ATTCACTG | 5220 |
| AATCTGAAGG CCTGAGAACCC AGAGGAACCTG ATGATGTAAA TCCCAGTTCA AGAGCAGGAG | 5280 |
| ACCAGATGAG ATGTCCCAGC TCAAGCAGTG AGGCAGAAAA AAAGGCCAA ATTCCCCCTT | 5340 |
| CCTCTGCCTT TTCTTCTATT CAGACCTGA ATATCAGGTG GCATAATGCC ATCCACACTG | 5400 |
| GGAAAGACAG TTTACTTAC TAGGATCACC TATTCAAAGG CTAATCTCAT CCAGAAACAC | 5460 |
| GCTCACAAAC ACAGGCCAGAA ATAATGTTA ACCAGATAGC TGGTTATCCC CTGACTCAGT | 5520 |
| CAAGTTGACA CAAAAAATGA ACTATTTCAA AGCTTACTGT AATCAACAGT TTTGTCAAAA | 5580 |
| AGATAGACAC AAATCAGTGG AATGAGATAA ACAGTCTAGA AATAAACCAA CAAAAATATT | 5640 |
| GCCAACTAAG GCAAAGGTAAC TCAATGGAAA AAAGATAGTC TTAGCAACAA ATAGTACTGG | 5700 |

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| AACACCACAA TGTGTTAATA AAGTGAAACT GGAGACATCT CTCACACCTT ATACAAAAGT | 5760 |
| AACTAAAAAT AAATCAAAGG ACTAGATGTA ATGTATCAAA CATTACATCT TTTAGAATGT | 5820 |
| ATCAAACATT ACAAGCTTT AGAATAAAAT ATAGAAGAAA ATTTACATGA TCTAAGATTT | 5880 |
| GGCCCCAATG AAGTTTAGC TATAATAACA AAAGTATTAG TCATGGAAGA AAACAAAATT | 5940 |
| GATAAGTTCA GGTGGGCTAA ATTAAGGGAA AAAAATCACT TTGCAGTAGA GAAACCTGAA | 6000 |
| ACATTACCTA AACCACATGA TGAAGGTTAA TATCAGTGAT GTCATGTGGA TATCATGTTC | 6060 |
| TCCCTAAAAT GATGTGACAA GAAGGGCCCT TTGCCCTTGT GGTATTATTT CAAAAAAATCT | 6120 |
| ATAACTCCGG TGTAATTATG AAAAAAAAGC AAATGATCTT CAGGACTGTT AAGGTATGAA | 6180 |
| AAAGCAAGAA AAGACTGAGA CATTGTCACA GACAAAAAAA GACTAGGGAG ATATGACAAG | 6240 |
| AAAATGCAGT GTGGTATTCC AGATTGGACC TTGGAACAGA AAGAAAACAT TAGTGGAAAC | 6300 |
| AGTGGTAAA TCCACATAAA GTCTAGGGTT TGGTTAATAG AGTTTCATGT ATCAATGTGA | 6360 |
| GTTGCTTATA TTTGACAAAT GTATCATAAT AATGTAATAT CCTAACAAATG GGGGAAAGCT | 6420 |
| AGGTGAAAGA TATATGGAA CTCTCCTGTA CTGTCCTTGT ACTATCTTG CAACTTCCT | 6480 |
| GAAAATCCAA ATTATTCTAA AACAGAAAAG TTCATGCTAT TAGAAGTGAG GATAGAGGTT | 6540 |
| ACCTTGAAGA AGCTGAGGTC TAGAAGAGAC CATGAGGGT CTAATTAGCT AACACACGTT | 6500 |
| GAGTATCCCT TATGCTTAGA ACCAGAAGTA TTTCAGATTT TTTCAGATTT GGAATGTTTG | 6660 |
| CATTATACTG AGTATCTCAA ATCCAAAAT CCAAATCTG AAATATTCCA TGAGCACTCC | 6720 |
| TTTGAGAATC ATGTTAGCAT TCAAAAAGTT GCCGATTTTG GAGCATTGG AATTCCAAT | 6780 |
| TTTTAGATTA GGAATACTCA ACCTGAGTAG AGGCTGCCTG CTAATTACCT GGGAGCTAAT | 6840 |
| TACATGGATA TGTCATTTG AGAAAGTTA GCTTGCTGAT ATGGATGATT TTCTGGATAA | 6900 |
| AAATTATACT TTGATAACAA TTCTTTAAA GGAGACAATA ATTATTAACT TTTAAGTACT | 6960 |
| TTTTAGCTCT ACAATTCAAGA ATTCTTAGT GCTAAATATT ACATATTGG AAACAAAAGT | 7020 |
| TTTGTAAATA TTTATTTATT TGTTCCCCC CCCCTTTTT TTTTTTGAG ACAAGTTCTC | 7080 |
| ACCTTATTGC CCATGCTATA GTGCAGTGGG TGATTATAGC TCACTGCAGC CTCAAACCTCC | 7140 |
| TGGACTCAA GGATCCTCCT GCCTCAACCT CCCAAGTAGC TAGGAGTACA AGCATGCACC | 7200 |
| ACCATATCCA GCTAATTGGT GTTTATTCT ACAGAGGCAG GGTCTCACTA TGTTGCCAG | 7260 |
| GCTGATCTCA AATTCCCTGGC CTCAAGTATC CTCCCACCTC TGCTTCCCAA AGCGCTGGGA | 7320 |
| TTACAGGTGT AAGTCATTGC ACCCAGCCAA AAGTTTATT TTAAACTTAT TATTATGAGC | 7380 |
| ATGTAACAGA TTTATGTGGT TTGAAATTCA AACCTACAAA AGAAAATAAT AAAAGCTAA | 7440 |
| CAGATAGACA AACAAAAACA AAAGCAAAAC CCCACTTGGC CATGCTCTCT AGTCCTCAT | 7500 |
| TTCTCTCTTG GAAGAAACCA GAGCAATGTT CCCTGTGTAT CCTTCCAGAG ATAATTGGT | 7560 |

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|----------------------------------------------------------------------|------|
| AAAATACTTT TTTCTTTTA ACAGAAGAGA TGGTAGACTA CTTCTTTAA ATTAAATTAA | 7620 |
| TATACATTAA CTTGTTCTT TTTATTGCTA TAGAAAATGA AGTTGGGGAA ACAGGAAAAA | 7680 |
| TGACCTAGTA TTATCATACT AACATACCAA AATTTTCAG TTATATGTAT TTCCTGTTTC | 7740 |
| AGTTTTTACC CCACCTGTT TTTATTTGGT TTGAAATCAT AGTACAGATA AAAACTTGAG | 7800 |
| GCAGGTATT TAGACTTGTT TTTCTTTGT AACATAAAAC TTTGAGAGCA CCAGGAAATC | 7860 |
| TGGAAATATT CATTAGTTA TTCATAATTC AAAATATTGT TATATCCACT TTGTGTCAGA | 7920 |
| CTATTTGTTA AGAACTAAC TAAAAGAAAA AGATGGGCT GGACATGGTG GCTCACACCT | 7980 |
| GTAATCCCAG CACTTGGGA GGCTGAGGCG GGTGGATCAC CTGAGTTGG GAGTCGAGG | 8040 |
| AAAGCCTTGC CAACACGGTG AAACCTGTC TCTACTAAAA ATACAAAAAT TAGCCAGGTG | 8100 |
| TGGTGACACA CGTCTGTAAT CCCAGCTACT CAGGAGGCTG AGGCAGGAGA ATCACTTGAA | 8160 |
| CCCAGGAGGT GGAGGTTGCT GTGAGCCAG ATCATGCCAC TGCACTCCAG CCTGGGCAGC | 8220 |
| AAAGCAAGAT TCCATCTCAA AAAAAAAGAT GATAACACCC TCTGGGAGAT TACATTAGA | 8280 |
| / TAGAACAAAT AAAGGTGTA AACCTAAGAT GTGACAAGGA CACTGTTGG TGACTGATTC | 8340 |
| TTCCTGGAA CATTATAAA GGCTCCTAG GGGAGGGCGT GTTTGTGAA GAGCTTCCA | 8400 |
| GGTCAGAAAG TATGTACAGT GGAAATGTA TATGAAAAGA CCGTGTGTTGG GAATCAGGGA | 8460 |
| TTATATATTG TGATTAGAGG AAAGAGTCCT AGGGTTGAT ACCTACAAAG AATTAGAGTT | 8520 |
| TCTAGGTGCT TCTGGACATG TGGATTGATG ACAGCAATAC TAAAAATACA AAAATTAGTG | 8580 |
| GGGCATAGTG GTGAGCGCCT GTAGTCCCAG CTACTTGGGA GGCTGAGGCA GGAGAATAGC | 8640 |
| TTGAACCCGG GAGGCGGAGG TTGCAGTGAG CCGAGATTGT GCCACTGCAC TCCAGCCTGG | 8700 |
| GTGACAGAAC GAGACTCCGT CTCAAAAAAA AAAAAAGAAA AAAAGCAGGA GTTAGCAGAA | 8760 |
| AACCAACAAG ACATGGGAAG GAGAGAGAGA GCTGCAACAC CCAAGAGAAA AAATAGCAAT | 8820 |
| GCTGAAATCA AAGTATAATG AAGGAGAGAG GATGCTGGAA GCTATGAAAT TCTTCTGTG | 8880 |
| AGGCAATGGG GCAATGACCC TAGAACTGCT GAGTTAGCAG CAGTGACAGA CTCAGTGCCA | 8940 |
| AATCATATAT TAGAAAAAAA AATCAGATAG AGGTAAAGTC CAGATCCAAA GAAGAGGGTT | 9000 |
| TTTAGCAGTA AAGCAGACAG TAGAACCCAC CCAGCTTCT AGGGTCAGG GGGCCTCCCT | 9060 |
| TTCAGGCATC ATGAACAGTG GGGGACCATA ACTAGGCATG ATGGCTTCAG ATACAGGGCT | 9120 |
| TGTTCATCTC TTGTTGTGGT CAGGCAGTGC CTAATGAGAG CAACCCCTTC CAAATGCTAC | 9180 |
| TGCTGTGTTT AACTAGGGCT CTTGATAATC TGACCAGCTT CTGTCTTACT GATTTAGGA | 9240 |
| GAAAAATGGA GCAACCTGCA AGATGAGTGG GATTAGCTTC GTGCTGTCTC CCATGCACAC | 9300 |
| CACTCATGCA CACTTGGCGA GCATGGCAGT TCCATTTATT TTGCACCCAG TTGTGATTAA | 9360 |
| AAAACTTTA ATTAATTAGT CTTATTAGTC TTCAGTTGGA TTTAAATGCC AAATAATAAC | 9420 |

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|-------------|------------|-------------|------------|------------|------------|------------|-------|
| CTTCTACCTT | GTAAGAGGAG | CCCTTTACC | TAAAGCAAGG | CTTAAGTTG | GATAAATTTC | 9480 | |
| GTCCTATT | TTATTCATCC | ACAAGCTCTC | TTAAAACACT | GAATACACAC | TAAGAAGGCT | 9540 | |
| CTCAGCACTC | CGAATAGTGT | GATAAATCAA | AAGCCAGTAA | CTTCTCAAAG | TCATTGTGTA | 9600 | |
| TTAGTCAGGG | CTCTCCAGAA | AAATAAAACC | AATAGAACAT | ATATACATGG | GCTTTACCC | 9660 | |
| AAATGTCATC | TTTTCAATGA | GTCCTCTTGC | CTGCTTAATT | TTTCTTTTA | GCATTTGCCA | 9720 | |
| CCTCCATATA | ACATGCAC | TT TACTTATT | TTGTCTTATT | CTCTTCACA | TGGCAGGGG | 9780 | |
| TTGCATTTGT | CTGTTTACTG | CTGTATCCCT | AGCACCTAGA | GTGGTGCCTG | GCATACGGCT | 9840 | |
| GGTGTGTGAT | ACATATATTT | GGAGTGGAGG | TAAAAGTCAC | CACTTAGGCT | ATCCACTTTT | 9900 | |
| GTGACAGGG | CAACACACGT | ATCACTTGT | ATTGTACCTA | TAGCATCTCA | CCCAGAGCCA | 9960 | |
| CAAAAAAAAGT | GGCTCAAAGT | ATATATTAAC | AAAGAACAAA | ATGGAATAAT | CCCATCTGAA | 10020 | |
| GGCGAGGATA | TAATAAAAGC | AACATAC | TTTTGGAAG | GACATGGAGA | GCATCAACCT | 10080 | |
| TAAGACTAAA | GA | CTTAAACTT | GAGAAGCAAT | TATTACATT | CTATTAAAAA | TTACCAAATA | 10140 |
| CAAATAGTTA | ACTTTGAAGA | AATATATGAA | TAATGATGGT | ATCTGCAAAA | GAGGAAAAGA | 10200 | |
| CTTACTCAAT | TTCATTGTAC | CTTAGTTGTA | AATAGTATT | AGGCCACCAT | TTGGAACCTA | 10260 | |
| TGTGACACAG | TTTAGTTCC | GTCTATGTC | ATAAGAGAGG | GCAAAGGCC | GTTTACATCC | 10320 | |
| AACCTCTGTA | TGCCAGCAGC | CACGTATGCC | ACACTCTAA | ATGGCTAAC | AGTCATT | 10380 | |
| CAGAATCGGT | TCCAAGAACT | CCAACAAAAA | TTAGAGCTCA | TGGTGCAGA | TTGGCCTGGA | 10440 | |
| TTTCATGCT | CCTGGGTGAT | TACAAAGTTG | TAAATAATGA | TGCTGTCCAC | TGATTTTCAT | 10500 | |
| CATGCGGGGC | TCTCTGCTTC | ACTGTGCCTT | CCTCTTATGT | CCATGGCACC | AATTCTCTG | 10560 | |
| ATAGTTCCCC | CAGGGGATAG | GGTTAGATGT | GGGTCATAA | GCGCTGGACC | ACTGAGGGTA | 10620 | |
| ATTCACTCTT | AAGACTAGCG | AGCACTTCT | GAATCTGAGG | AGTCACATAT | AAAAAGAGGC | 10680 | |
| AGAATCATCT | TCTGATTCA | AAAAAGCAAC | TACATGACCA | CCCTGAAAGT | GATTTCAAAA | 10740 | |
| CAGTTGAAAG | CTAGCTGTC | AAGTTGATAA | AAGCCACTGC | AGTTCCCTGC | AGGGAATGCT | 10800 | |
| GATGGGCTCC | GTTCCCTCTG | CACATTAGAG | CCATTAAAT | GAAATAATTG | ATCATATTAA | 10860 | |
| CTGAAATCAC | CTGGCTTATA | GCTCAGGTCC | TAAGAATTGT | TAGTGGCACT | TGGAGCTACA | 10920 | |
| AAGAGGAGTC | CCCAAAAGAA | ACGATTCTCA | CTTTATT | GCAAATGGGT | GGCTTAAGTA | 10980 | |
| GAAC | GGTCC | TATTCATAA | CAATAAAAAA | GGAAAAAATA | AATTTTATAT | AAACTTATT | 11040 |
| CCAAGATTTC | TTACCCCTTC | TTGTCAGCAT | TTCAACTTTA | TTTGGTGAA | CTATCTTTC | 11100 | |
| TCAATTATGT | GTGATGTATT | GTGGTCGTGA | ATCATGGTGT | CCTGAAC | CTTTGGAAGC | 11160 | |
| TAAAACGGTC | TGTTGAGGCT | CTGCCTACCA | GCTCTCTAGG | GT | TTGTTAAA | GCAAAGAGT | 11220 |
| GAGCACTTTA | CTTAAATTTC | ACCAATTATA | TTATCTCTG | AGACCTAAA | TGTTGAGTAG | 11280 | |

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| AGGGAAAATA | CAAGTTCAAG | CCTATTTATT | TCAACAATGG | AGCAAGTTGC | TACAGCTAAG | 11340 |
| ACCTTTGAG | GCTGCCTGTT | TCTTCAGGTT | TTCCTTGAT | TCTCAGAGTA | ACCCCACCTC | 11400 |
| AATTTATTG | AATACATGTA | CTTATGGCTT | AACCAACACA | CAGGTGGTTT | CTTTAACTAC | 11460 |
| AGTGCAAAAA | TCTTCACACA | TACAAACTTT | TTAAAAAACAA | ATTCTCAATA | TGAAAAAGAG | 11520 |
| AAATCAATAT | AATTGGCTAC | AAATTATTGG | CATCTTTCA | GAGATTTCT | CAAGAAAGTA | 11580 |
| ACTGAATTCC | TAAAATTCTT | ATGACTTTGT | TAAAGGACTC | AAAATGAACA | TATATTCTGG | 11640 |
| CTGGGCAGGT | GGCTCATGCT | TGTAATCATA | GCACCTTGGG | AGGCCAAGGA | TTGTGGATCA | 11700 |
| CTTGAGGTCA | GGAGTTCGAG | ACCAGCCTGG | CCAACATGGT | GAAACCCGT | CTCTACCAGA | 11760 |
| AATACAAAAAA | TTAGGCCAGGC | GTGGTAGTGG | GTGCCTGTAA | TCCCAGCTAC | TTGGAAGGCT | 11820 |
| GAGGCAGGAG | AATTGCTTGA | ACCCAGGAGG | CAGAGGTTGC | AGTGAGCCAA | GATTGCGCCA | 11880 |
| TTGCACTCCA | GCACGGGCAA | CAGAGGGAGA | CTGCATCTCC | AAAAAAAAAA | AAAAACAAAA | 11940 |
| ACCTCATATG | TCCTACAAAG | CAAGTGATAA | AAATCAAAAT | ATGACAATGG | GCTGAGAGGA | 12000 |
| AAGGGAAACT | AGTAGTATTA | AAGAAAGTTT | TTAATGAACA | AATAATGTTA | AGGCGGATTT | 12060 |
| TTTTGTTTGT | TTATTTGTTT | TTGGCCTTTT | TTTTTTTTTT | TTTTTTTTTT | TTTGAGACA | 12120 |
| GAGTCTCACT | CTGTCGCCGA | GGCTGGAGGG | CAGTGGCACT | GTGTTGGCTC | ACTGCAACCT | 12180 |
| CCGTCTCCTG | GGTTCAAGCA | ATTCTCCTGT | GCTAAGGCAA | ATTTTTAAGG | ATTATAAATA | 12240 |
| GTAAATATTA | GAAGGGATAC | TGCTAAAAAA | TAAACAATT | GGATAGCTAA | ATGGTCTTCA | 12300 |
| GACTCTTTG | ATTGTACAAC | ATGTAAAAGA | ATTTGAAAAA | CTTTAGGCAT | TCCTTGAAAT | 12360 |
| ATTTTTAACT | TGATTTCTAA | AACTTTCAT | AAAAAAATAA | ATTGTTTGT | AAATAAAAGA | 12420 |
| AAACATTAAA | CATGTTATAA | GATGAAATAA | GATGAAGAGT | GACTATAATT | AGAATAAGTA | 12480 |
| TTTCATGACA | TAAGTTTATT | TTAATAAAAG | TTCTAACAC | TTTATTGTAT | CATTCATATC | 12540 |
| AAGTTTTTA | AATATATATT | GAAATTGGT | GCTCTGGAA | AATATGCCAG | CTTCATTGAA | 12600 |
| AAGAATGAGT | TCCTATCCTG | TACTGCTTCA | GTTATTCTGA | ATTCAAGAAC | TTCCCACTCT | 12660 |
| GGCCAGTCCT | CTCTTATAAT | AAAACATACA | ATACTGTGCA | TATTCTCAGT | GATTAAAAAA | 12720 |
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| GAAGTGTGTTA | CACTTCAGGC | ATTGCACCTA | AATAAAGTGT | GGATGCCCTT | CCTTCTAAA | 12900 |
| GTTGGAGGAG | GGATATTGTG | GACATAGGCA | CATTCTGAGG | CAATTAGG | AAATAAGTTG | 12960 |
| AAATTGATGG | AAATTGAGAA | AGACTTTGGA | AAAGTGTGTTGC | CTGCCTCCAC | TACCAAAAAG | 13020 |
| TCCATGGAGA | AAGCAAAGTA | AAAGGTCCAA | AAATGAAAGT | CAGCAGAAC | CAGAAAGATG | 13080 |
| GGCAACAAAGG | TTTACCATATA | CAGATAAATA | GAAGAGAGAT | TCTTAGTAAA | GAACACAAAT | 13140 |

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| CCTCATATTG GACATCAGAA GAGACTAGCA GGAAGTCAAT ACTGTTTGAA ATAAGACAAA | 13380 |
| TTGTGGAACA AAATTTCTGT TCCCAGCTAA GTTAATATTA CAATGTTTA AGGCTCCACA | 13440 |
| GTGATCATAA AGAGTACTAT GAAATAAATT CTCAGCTACT GTGGGACTCA GAGGCTCATC | 13500 |
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| GAAGTGTCCA GCACTCAAAA TTAAGGAGGC ACTCACTCTC ATGTGCCAAT TCTGTTCTTG | 13680 |
| CATGAGCCTA AGAAAGGATG CCTCCTTAAA TATTGTTCT TGGGCACCTC ACTTGCCTCA | 13740 |
| TCTTGGTTTC AGCCCTCAAA TTATGTTCAA ATAACAGTGA AAAGTATAAT ACCCAACAGA | 13800 |
| ATGCAAATGG TATAATTCTT CTATGGAAAC TACTCAATGC AAAATTAAATA CATTAACTGC | 13860 |
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| AAAGCATTAA AAGAACAAATG AATTTGGGAG CACAACACAG CAAATGTAA TCTGCCACAA | 14220 |
| AAATTGGACT TAGAGGAGCA ATTTCCCTCT AAGCTTAAAC CTGTTCTATA ATTAAATGAA | 14280 |
| AAATAAATAA ACTATCCAAA ACAAAATTAA TATGAAGTAA AGCAAAGGGA AATAGGACAT | 14340 |
| AAGCTTGATA AAAGATAAAG CTAATCAAAT ATAAAATAAA AAGACAAGCA GGGCTGGCG | 14400 |
| CAGTGGCTCA TGCCTGTAAT CCCAGCACTT TGGGAGGCCA AGGTGGTAG ATCATCTAAG | 14460 |
| GTCAGGAGTT TGAGACCAGC TTGGCCAACA TAGCAAAACC CCATCTCTAT TAAAAATACA | 14520 |
| GAAATTAGCC AGACATGGTG GTGCATGACT GTAATCCCAG CTACTCGGGA GTCTGAGGCA | 14580 |
| GGAGAACATCAC TTGAACCCGG GAGGCGGAGG TTGCAGTGAG CCGAGATCGC GCCACTGCAC | 14640 |
| TCCAGCCTGG GTGACAGAGT GAGACTCCGT CTCAAAAATA AATAAGTAAA TAAATAAAAG | 14700 |
| ACAAGCTATT CTTAAAATTA GTAAATGACT AAGTAGTCTA ATGAAGGAGA AAGAAAGCAC | 14760 |
| ACATGCAATT GGGTCAGAACAG TACAAAGAAC CTAAAACCTC AGATATAGAT AAAATGATAT | 14820 |
| ATTATTAAGAAGATAGCCTG ATAAAACAGT TGAATTTTG CAAATATACT TTAAATAGTG | 14880 |
| TGTAAAATAG ATGATCCTCC AGATAACATA AATGGTCCAA ATTGATCAAA GAAAAATATA | 14940 |
| AAACCCCTTA AAAGACCAGT AACTGAAGGA AATTGAGAAA GTTATCAAAG TCTCCTCAAA | 15000 |

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| ATGGCTTCA GCCTGCATGA TTTTACAAA CCAATGCTT CAAGCTTCA AATAACAACA | 15060 |
| GCAATTATAA AAATTCATT CTAGTCATC TTTTCAGAG TAATGGGAA AAAGGAAAGT | 15120 |
| TCTCCTTCT TGTTTGAA ATCAGCATAA GCTCCATATC CAGACACAAA AAAGATACAC | 15180 |
| AAAACACATG TATGCATACA GAGCCAATCT CATATATCAG TACATCAGCC AAAGTCCTAA | 15240 |
| ATAAACTATT AGTGAATCAA ATTCTGTCGT ACATCAAAAG AATATTCAAG GGAAAGCTCA | 15300 |
| ACATTAAGAA ATACATTAAT ATAATTCAA ATAATTACA GTCAAGGAGA AAAAGTAAGT | 15360 |
| CATCTCATCA TTAGGTAGAT GACAATAAAC TATTGAGAA AAGTGAATTA ATTTTCATGA | 15420 |
| CTATTGTTAG AAACAATCCT TTAGGGATGG GGAGGGGAGA TGAATTAGAA ATGTTTCCTA | 15480 |
| TCAGTTCACA ATTGCATCTA TTCTGAAGCC ATTAGGAATG TGAATGGTAA CTCTTCCTCA | 15540 |
| AACCATCACA TAAGGAAAGA TACCTGAAA GTCTGACACA CCGAAGTCAT CTGTCAGGAA | 15600 |
| TCAATCAGAG AAGCTGCTGG GAAAACCTCA GAGAAGCTGC TGGGAAACCC TAGGCATTCT | 15660 |
| GAGTCATCAT TGTTCTTATC ACCCGTGGCA ACTGATGCAA TTGGAAGCAA CTGATGCTTT | 15720 |
| CAGGGTCATG GTTCTTCAA AGCCTGAGCT CATTAACTT GCTGTTGAG AACATTGCACT | 15780 |
| TTGATCCAAA AGCTGACAGC ATCGATTGAC CCATTGCCTT CCTTCCTGCT CTGATACTGG | 15840 |
| AAGTTCCAAC AAAAGAGGAG GAGGAACAGG ACCAAGAAGA ACATGAAAGC AGAGGACCAG | 15900 |
| GGGCCGGGCG CGGTGGCTCA CACCTGTAAT CCCAGCACTT TGGGAGGCTC AGGTGGGCGG | 15960 |
| ATCACGAGGT CAGGAGATCG AGACCACCTT GGCTAACATG GTGAAACCCC GTCTCTACTA | 16020 |
| AAAAATACAA AAAATTAGCC GGGCATGGTG GCAGGTGCCT GTAGTCCCAG CTACTGGGGA | 16080 |
| GGCTGAGGCA GGAGAATGGC ATGAACCCGG GAGGCAAAGC TTTCAGTGAG CTAAGATCGA | 16140 |
| GCCACTGCAC TCCAGCCCC GCGACAGAGT AAGACTCTGT CTAAAAAAAAA AAAAAAAAAA | 16200 |
| AAAAAAAGCA AAGGACCGAA GGACCAAGAC CCCTTCCCAA CTGCTCCATT GGTCAAAACG | 16260 |
| AAGTCAGAGC AGAAGCTCTC AAAAGGATGA TACTTTGAAT TTGCTTCTG TTTTATTTTC | 16320 |
| TACATTCAA AACGTGCACA AATCATAAAT GTACAATATT CACAAAGTAA ACACACATCC | 16380 |
| AAGTCAGAGA ATAAAAATATT TCTAGTACCC CAGGAGCACT TCTTAAGTAC CATCCATCCA | 16440 |
| GCCACAAACCC CCATCCCTGC ACAAGGGAAA TCGCTCACTG ATTTTAACA GGACAGATTG | 16500 |
| GTTGTAGCTG TTTTAAAAA GTATTTATA AACCTTAAA AGAATGTGCG TTTTGTCTTC | 16560 |
| CTTTAATCAA TATTGTGCTT ATGAGACCCA TTCATCTATT ATATATTGGG GTCTGTTAAT | 16620 |
| TCTCATTGCT ATACAAATAG ACCGTGGTTT ATTTACTCAT TCTTTTTTA ACAGACAACT | 16680 |
| TCCTGTTCA GCTATTACAG ATAGTGCTCC TATGAACATT GTTGTACATG TTTTATGGAT | 16740 |
| GTATATGTGC ATTTCTAAGT AAAATGTTTG AGTCACTGGA ATTGTACATT TAGCTTTAGG | 16800 |
| AGATATTGCC GAGCAGCTTT CCAAAGTTCA CATTGTAAC GTATGAAAGT TCCAGTTGCT | 16860 |

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| CCACATGTCT GGCAACATTT | TGTTTCCAT CTCCTTCAT | TTTATCCATT AGTTAATT | 16920 |
| ATAGTGGTAT TTCATTGTAG | TTTGATTTT CATTCTGTA | ATGACTAATG AAGTTGAACA | 16980 |
| TCTTTTATA TGTAAAGGAG | CCACTTACAT TTTCTTTT | ATGAAGTCCC TGTTCAAGTC | 17040 |
| ATTGGCCCAT TTTTAGTTG | GGTTGTCGT | CCCCCACCT TTTTGT | 17100 |
| TTTTCTGTA CATAATTGA | CTACCTATTA | TACTATGTCT TTCTTTTTC | 17160 |
| TCTTTAGTT TTCTGCAAAC | CCCCTTCCT | CTTGTGTTG TCAATATCAT | 17220 |
| TCAATGTTCT CATCTTAGTA | CCACCCTCAG | GGCCTGACAC TCTGTTTC | 17280 |
| GCTAAAAAT ACCCATTGAT | TTGCATTAGG | AGATTCTCTT CATCTGCTGA | 17340 |
| GGTTCTTGTCAAGCAGTTT | TTTAATAGGA | TTTAAAATAT GGTGGAACT TCTTCTCTAG | 17400 |
| ACATGTTGTG GCAAAACCAG | AATCAGTTCT | GTGTGAGGAG ACAAACTAAA GGATATGTCT | 17460 |
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| GGAAAGTAAG AAAAATATGA | AGAAGGTTAA | ATTATCTTT TCTACGCTCA AAAGGAAC | 17580 |
| CTCTTGTATG TGATACACTT | CTATGCCTG | TATGTGATAC ATTTCTATGC | 17640 |
| CTTGTATGT CTTCAATATT | TTTCTCCCCC | ATATAAATTG TCATTTCACT TGAAAGTGT | 17700 |
| TCTGTATCT CTCTCCAATT | TTCATTATAT | GGTCTAAACT ATATTGCTAT CCCTCTGGA | 17760 |
| AGTGTCTACA TTGCCTTCCT | TCACATTCA | TCTTCTCACA ATACAAGCCT TCCAGTTCTA | 17820 |
| TCTTCTCTGT CCTTGATTTC | TAAGTTAAC | TCATTTATTT AATCTTGTAT TGGTCATT | 17880 |
| CTCATCATTAA ATCTCTTGCA | ATTGGGCTAG | GATAAATAAA TATCTGTTA ATCTGATGGA | 17940 |
| AATATCTGGA TCTAAATAAT | TTGAAAATGG | TCTATTTAT TTTAGCATGT AAATTTAA | 18000 |
| AGAATTAAAT CACATAAATA | AACGTCTATG | TTTACAATG TATAAAAAT AATAAAACT | 18060 |
| TTAATTCTGG GGATTATAGC | TTTACAGTTC | CGATCGGTGC TGAGATCTGT AACATATGGC | 18120 |
| TACAATTCCG AGCAGATCTT | CTCTGCATCC | AATAACCTGC CCCACCAGA AGATATT | 18180 |
| CAGTGATCAT TTTCACATGA | ATTTTATTT | ATTAGTACT TTCCAATGAG GAAAATTCAA | 18240 |
| AGGCCACATG AATTGACTTT | TCAAGTTGT | CCAGCTGTTG TCAACCCGG GCGCATGCTA | 18300 |
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| TTCAGAATCT CTGGAGTGGG | TCCCAAGTAT | CAGTGTCTTA TAAAGGCTCC CCAGGGAAGA | 18420 |
| CTAACACACA GCCAGAGTTA | AGAACTGCTG | AGTCTATGGT CAGGAATATG GAGAGAAGTA | 18480 |
| AAAAATGTTT AAAAAGTTCA | TGCTCAGTAC | CACATTAAAG TTTGTAAC | 18540 |
| GAGGCAGGTA AGGGCCTCT | CTTGGCCCA | GTCTGAAGT TCTGCTTGTC CAAACGTGAG | 18600 |
| GTAAAAGACC AGGCCAAACA | TGTTGACTGC | AGCAGACAGG AAAAAGACAT TCCTCCAACC | 18660 |
| AGACTCAAAA TCCTAGATGT | AAAAAACAGA | GAAAATGATC AATCTCACAA GTTCCTTCTA | 18720 |

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| ATGCACATGG GGTTCTGAGT TGAGATGGTT ATTTCTTAA ACAAAAATAA AATACACTAA | 18900 |
| TGTTTTCTG AAAATTGGA TTTCAACATA TAATATTACT CATTAAAAT TATGCCTAAA | 18960 |
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| AATTCAACAT GAGTTCTCTT TGGTCTCTG TGTGACCCTC CTCAGAAAGC CCTACTAAAGT | 19140 |
| CATTTCCAGC ATTATAGTCA CAGTGGATTC CTAGCAGTTT AGTCAAATAT TAACCTGGGA | 19200 |
| ACTTGATCAC ATAGAAATGT AGTAAAAACA AAACCTCTCT TTGTAAGTTG GTTCTCGTCA | 19260 |
| GTCCTTCCAT CCCTGCCTGG GTCTGTCTT TCATCTCCT CATGAGCCTG CATTCCAAA | 19320 |
| CACCGAGCAA GCCTCCTTGC AATGTCTCAC AGCCGATCTG TTTCCAGACA TTAAATTATC | 19380 |
| TTTAAACTGG CCTAGGACAC TTTGTTCCC TTTGTGATT TTTAAAAAT TGGATTAGTC | 19440 |
| TGAACATATT CTTCATGATC TTCTTTGCC CCTCTGTCTT CGTCTCTTGC TATTCTTGA | 19500 |
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| TCTTGAGAAA ATAAGCTTAT ATTTTCTTC CTCTGGGAAA TCTGACCTAC CAGAGTCTGA | 19680 |
| TTTAGAGGCT CATGTAAATA GAGTAATTGT GTTGCCATCC AGATCTTAG AGCACCGTGT | 19740 |
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| CCTTGAGATT CCCATGAGGA AACTTGCATA TCTGTGGAA GATGATTAA TAAATGATT | 19920 |
| TATATAGAAA GCCACCTACA GCTTCTGCAG CAACTCAACT TTAATGCAAT TCAGCTCTAA | 19980 |
| TGGCAAAGTC ATTTGCTTA ATGCAGTTT TCATTCACCT AAAGACATTC AGGGCAATGT | 20040 |
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| TCTCTGGGAA CCACGTTCT TTACCCCCGGC TGCTCAGTGG AGAAGCCAGT TTGTGCAACG | 20160 |
| GGCAGGACAC AGACTCCAAA GCCAGACTCC CCCAGTCCAA ATCCTGGCTC TGCCTTATG | 20220 |
| TGACCATAGT CACACCATT AACCTCCTTG TGCCTCAGCC TTCTCCCTA TAAAATGGGG | 20280 |
| ATAACAATAG GGCCTACCTA ATATAACTGT GAGGATTAGA TGTGTTGATA TATGGCAAGT | 20340 |
| CTTGGCACAG GAGCTGGCTT ATTGTGACTG TATATATATA TATATATATA TATATATATA | 20400 |
| TATGGTAGCT AATATGAACA ACACCATGGA AACTTTCCA AATCACCTGT GTGTGGGCCT | 20460 |
| TTTCCCAGCA TACACAGTTC AATCTCTGTT AGGAAAGCTT GGGAAAGTTT TTGTCAAAAT | 20520 |
| GATTACTGGC CAAGATTGGA AATTGTTGTT CTAAAAATGC CACATTGTT GTTCTAAAAA | 20580 |

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| TGGCCACAGA CAGATATTTG TAGTTATTTG TCATTCTGCC ATTAGTGCAA TGTCAGTAAC | 20640 |
| ATTAAAGAGT TTCACGGCGA CCACTGAGGT CTAACACCTC TGGAGGGGTC TGGAGGAGGG | 20700 |
| GAAAAAAACAG GTAGAGCTCT TACCTGGGG CGATATCTAA GGTGTTGATG ATAAACCCTG | 20760 |
| AGTCACATAG GTTACTGGTC CCAGGAATAA GTATCAGCAA AATAATGGTT ATCACGTAAC | 20820 |
| TGGAGGCCAC AAAGGGCAGG GCCACAGCAC ATATTGATGG AAGGAGGAGC CCTGGGCAAT | 20880 |
| GAGGACATGC TGTCAGGGAA CCCTCTGAGA CCATGTGCAG AAAAGGGATT GGTTAAATGG | 20940 |
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| CCCATGATAC TGTGGTTGT TTGGGGAAA ATTAGCATCC TTTTCACAC TAAAAGAACAA | 21240 |
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| AATTTCTTGG GTTTTTGTT TTTGAAACGG AGTCTTACTC TGTCGCCAG GCTGGAGTGC | 21360 |
| AGTGGCATGA TCTTGGCTCA ATGCAACCTC CACCTCCTGG GTTCAAGCGA TTCTCCTGTC | 21420 |
| TCAGCCTCCT GAATAGCTGG GATTACAGGT GCCTGCCACC ACACCTGGCT AATTTTGTA | 21480 |
| TTTTTAGTAG ATGATATTTA GTAAACCATA TTGGTCAGGC TGGTCTTGCA TTCCTGACCT | 21540 |
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| GGCCCAGCAA TATTATTTCT AAAAGAAGCT TTGGAATCAG CTGGTGTGGT AGTATAGCAT | 21660 |
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| AAGTTATCTC ACCTCTAAGT GTCCTGTTTC CACATCTGTG AAAAGGGAAT TATAACAATG | 21780 |
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| AATGTTCCCA TTCTTTCTTT CAATCCTTCT ACAAACCTGT TAAAGCTTT TAGATATTAC | 22500 |
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| GTAAAAGAT TCTGAGGACT AGTTTCTTT AAATCCCCTC TAATTACTGG ATTCACTGAT | 23040 |
| TCTTTTATTT TAAAGCTAAA AATCAGGCAC CATGATGACA CCCAAGTGAT GAAAACATAG | 23100 |
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| TTCAGATGTG GTGGTAGAGA TTCTGCAGAA GGTGCTTGAT ATGGAAGGAC AAGACTGCAT | 23460 |
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| GTGACTCACC AAAGATGTAC AAGATAAAAG GCCAGCTCAA GGCCTGTGAG ATTAGTCCCC | 23760 |
| CCACACAGAG GATGATGAAG GATCCAAATG CTGACCCCTAA AGGAAAAGG GAGAAAACAA | 23820 |
| CTTATGAAAA TATCAAAGGC TGAGACTTCG TGGCCTCCCT AAACAATGTC CCAACAGTGA | 23880 |
| GGTGGCAGAC TTAGAATTAT TGGGCAATGA GAGTATTTAT TTCTAAAATA GCTCACAGAT | 23940 |
| TTTCCCCAGT AAAGTAATAT GATATAATTA AAATTAACAA ATAATAGTAA CACACTCTCT | 24000 |
| GATTCTTCAA TGGCTCCTCA ACACCAATGT GACCAAATCT AAATCCCTTA GTTGTCA | 24060 |
| GTAACACTCT GCTATCACAG CCCATTAGCA TTTTCTTGTG ATTACAGTTG CATTCTTGCA | 24120 |
| TGATCTAATA TGAGGCTAGG GGCAGGAAAT GAAAGACTTA CAAAAATCGG TAAGATACAG | 24180 |
| CCCCTGCCCT CAAAGAGCTT CTGGTCCAAT TGGAGAGAAA AATGTGAATA AAATTGATTG | 24240 |
| TCACTAGTGA AATGCCATGT AGGCTTGGA AGTCTACATT AAAAAACAAAC AAGACACATA | 24300 |

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| TTTCACAGAG ACCTATAGTA AGAAATGCAT TTTACAGGGT AACATAACAC ACACACCAAT | 24360 |
| ATGCATAAAC ACTTGTACAT ACAACCACAC ACATATGCCT CAAACGATGG TTTCATGAAT | 24420 |
| CGATATTAA CTTTACCATG TCCAATGCAC TCCAACAATT TCTATTCTAT TCTATTCAATT | 24480 |
| TTTTAAAATA ATGATTTAA CCCGCTCAAT GGATTTATG ACTCACTAAT GGGTCCAAA | 24540 |
| CTGAAATTG AAAAAAAAGA TGTAAAATAT AAATATAATA AACTACAAT GTACGTGGAA | 24600 |
| GTATATCTGA GGATAAAATTG ATAATAATTA TAAGATTTAG GAAGTTTGG CGGGCGCGG | 24660 |
| TGGCTCACGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CGGGCGGATC ACGAGGTCAG | 24720 |
| GAGATTGAGA CCATCCTGGC TTGAAACCCC GTCTCTACTA AAAATACAAA AAATTAGCCG | 24780 |
| GTCATGGTGG CAGGCGCCTG TAGTCCCAGC TACTCGGGAG GCTGAGGCAG GAAAATGGCG | 24840 |
| TGAACCCGGG AGGCGGAGCT TGCAGTGAGC CGAGATAGCG CTACTGCAGT CGGGCCTGGG | 24900 |
| CGAAAGAGTG AGACACCGTC TCAAAAAAAA AAAAAAAA AAAAAAAA GGTTAGGAA | 24960 |
| GTTTTACAT AAGCTATGCA ATAGGATAGA TGGAATTTG GCACAAGGAA CAGGGCAAA | 25020 |
| GAACTTCCA GGCATATAAA CTAACGGGAG CAGAGCCAGA GGGAAAGTGCA GTGCAGATCT | 25080 |
| ATGTGGAGAG CAGCCAATGT CCAGTGCCAC TGGAGCCATG CTTGCACAGG GGAGTTGAGT | 25140 |
| GGAACAAGGT TGGGCCAGA TGGCTAAGAA CTTTTGTATT CATGCAATAA AGAGGTCAGG | 25200 |
| CTTTACTCTG TAAGCATGAA GGAACACATT GAAAATTCTC AAGCGGGTGA GTAAAATGT | 25260 |
| GCCATCTTA TTTTAGCAAG CTAACTTGGT TTTGGTGGGA AGAAGGTTGA AAGAAACCAG | 25320 |
| TCTAGAAGAG AGAGATCAGC AGATAGTATT TGCAAATAGA GGAGATGGTT ACAACTATGA | 25380 |
| TGGAAGGAAG CAAGAACGCA GGAGGGTTGC TTGAGGTAAA AGTCTGCAGG ATGCAGCTGT | 25440 |
| GTAGTGGACC TAGGAGTGAG AAGCTGGATG GAATTTAGT TCTGCTCTTC GAGTATATAC | 25500 |
| TCTCAGCACG ACAGGCTGGG GAGAACAGCA ATGATAAAGC TGTAGAGGCC TGAGTAGGAT | 25560 |
| CACATACCACAT GGAAAGGCAG TCTAGCATAG TGATTGAGAA TGTCTGCTCT GGGGCTAAAA | 25620 |
| TCTGCATGGG CTTAAATCTC AGACCTACCA CCTGCTGGCT ATTTGTATTT GGGCAATTTT | 25680 |
| CTTAATCTCC ACCTCCTTA ACTCCCTCT CTGTAAAATA AGAATTAAA ATGGTACTTA | 25740 |
| TATGAGAGGG TTGTTGTGAG AATTAATGAG CTCATAATAG AATAGTAAAG AGCTTAGAAT | 25800 |
| AATACAGAAA CTTCAAACTC TTCCAGCCTG ATTTCTCTCC TTACCACCTG GAGCTGTGGT | 25860 |
| AGCCTTAATT CTCACTTCAA AATCATTGCT AAGATGGTGT ATATATAGCT TACTTGATCT | 25920 |
| TTTCCATGT GTGCAATTCT TAAAGGTTA AACTTTTCC GACAAGGCTT TTCTGACTAC | 25980 |
| TAAGGCTTT CTGACTACTA AGGCTTTCT GAGCTGAAAC CTAGCTCACA ATGGTTTTT | 26040 |
| CTACTTCTAA GCTTCAATGT CTTTACTGCA CAGATGCATC TTTCCTATTT GTGATGCAAG | 26100 |
| TGTCTTATAT TGTTGAATTT TTCAGCAGTA CTTTTCTCT CTCTTCCCCA AACCATTTGA | 26160 |

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|-------------|-------------|-------------|------------|------------|------------|-------|
| TTCATAGAAC | ATAAGACACA | GTGGGATGGA | ACAGATGACA | AAGCTATGAC | CCATCTGTGC | 26220 |
| ACACTTACCT | GATCCTGCAA | TGGTGGTGAG | CTTGCTTCGT | TCAAGTGGAG | GAGCCCAC | 26280 |
| TGCCCAAATA | GTAAACTGAC | CTGTCCATGC | CATTCCCTGA | AATGAAAATC | ATTAAGACCT | 26340 |
| TTGATATT | GTAGAATTCA | GAAATCTGGA | TCCCACCAAG | AATGAGAAAG | TATCTGGATA | 26400 |
| CCTGGGCCAA | GCCCTGGACT | GTCCGAACCA | TGATGACCAA | AATCACTCCG | AAGTCAGCAG | 26460 |
| CCAGTGGTGT | AAAGAGGGTG | AGAAGGGAAAG | AGATCAGCAA | ACCAGCACCA | AGCATT | 26520 |
| TTGCTCCAAA | TATCCCTGCT | AAATATCCAC | TTGGGATCAG | AGTCAGTATT | ATCCCATAGT | 26580 |
| TGATGGAGCT | AAAGATGATA | CCCTGAGTTT | CTGGGCTCCA | TTGATACACA | GAGGCCTGGG | 26640 |
| GGAAAAATAG | GAAAACTCTT | TGTCAAGAAG | TCCTATTATG | AAAATCTACT | TTACAGTCAG | 26700 |
| AGTTGCTTGA | GGTTAGTGAG | ACCCTAGTAT | AAAATATTGA | TTTTGTTC | TCTCTATATT | 26760 |
| CTTCCTACCT | TCCCAAATAA | CCAATTATAC | CCCTAATTG | CTTGTCTTAG | TAGAAGGAGA | 26820 |
| GAAAAACAGA | AGAAATGAAG | AAAAGAGGTA | AAGAAAATGA | TTATATAGAT | GAATAATAGG | 26880 |
| AAGAAAGTAAA | TGGAAGAAAA | CATTGAGAGA | TATTCATCT | GTGAAAGCAC | TTCTCTATT | 26940 |
| TTGCTTCTAG | AAAAAGTTGA | GTAACATCTT | GACTCTTATA | TCAAAGAATT | TTTAAAACA | 27000 |
| CACACACAAA | ACTTTACTGA | ACTCTTAACC | AAAATCAGTG | CCTAATTAAA | AAGAAAAGTC | 27060 |
| AAGTTGGGA | ATCATGGTCT | GCCCTGGCTG | AACTGAGTTC | CTAAAACACA | TATTACAAAT | 27120 |
| GAATAAGATC | ACATTCTCT | GATATAACTC | AATAAATAAT | TTGAATTATT | TTAAAATAAC | 27180 |
| TACCTAAAAT | TCCTAAATAA | TTACATAAAT | TATATTACCT | GAATATTAC | CTAAAATAAA | 27240 |
| ATAGATTTA | AAATAAATAA | ATAAAAAATA | AAATAGATT | AAAATAAAA | AAAAAATAA | 27300 |
| ATGCAATAAG | GCCCCCTAAAT | ATCTGGCATC | ATGCTATAAA | GTAGAGAGCC | AAAGAATATA | 27360 |
| AAATATGAAA | TATTTTACCC | ACTCAAAAAA | ACTATAAATA | ATACAAGGTA | TATGATTCAT | 27420 |
| GTGAGAATCA | AGATTTGAGG | ATGAACATAA | ATAAAACAGA | GACTTGAGA | GGAGAAAATA | 27480 |
| ATAATTTGGG | AAGGTCCCAG | AAAGGAAGCA | ATACTTGAAC | TATCCCTTGA | AAAATGACTA | 27540 |
| TGATTTGTAG | AAAGTCAAAA | AGGAAAATTT | TATCTCATCG | AAAAAAATAG | CAAAAGTGAA | 27600 |
| CTTGTAGCAT | TTGGAAGAAA | CTAACAGGGA | CTCTGGCTTG | CTCAGGGCAA | AAACTTTCCA | 27660 |
| TGGGTCAT | ATAGCAGATG | TGAGTGTGCT | GAGAAGCAGG | CCCAAATTCT | GAAGGAACAC | 27720 |
| AGCATGTCCA | GTGAACACTG | CATGTTGGC | AACTTGAAGG | TGTCCAAGAT | TCCTGAGTAG | 27780 |
| TGAATCTACT | CAGTGTGGAT | ATGTAGACGG | GATAATGGAG | GAAAGACTGG | AGACAATAAA | 27840 |
| TTTATGTACT | CATTGTAAAT | AAGCTAGGTC | CAATGTAATA | AAATCATTAA | TCATGAATTA | 27900 |
| TAGGGATGAC | ATGGGAAATG | TACAGTACAA | GATAATTAA | AGGATAATT | TTTTAATTGG | 27960 |
| GTAAATTCA | GGTTTCATA | TAAATGTAAA | ATAAACATAC | AACAAAGATT | TTATTTAACT | 28020 |

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| CATTGATTA | TGGAGGAAGT | AAGTAAGATG | TTATAACTGG | TTCAAAGGAA | AACTCAAAGA | 28080 |
| ATCACGCATA | ACACAAGCAG | GAAGCAATGC | TGAAATAGAC | TTTAAATATA | CAGCAGAGCC | 28140 |
| TGGCACAGTG | GCTCACACCT | GTAATCCAA | CACTTTGGGA | GGCGAGGCG | GGTGGATCAC | 28200 |
| CTGAGGTCAG | GAGTCGAGA | CCAGCCTAGT | GAAACCCTGT | CTTTACTAAA | AATACAAAAA | 28260 |
| TTAGGCCAGCC | GCGGTGGCAT | GCCCCCTTAC | TCCCAGCTAC | TTGGGAGGCC | GAGACAGGAA | 28320 |
| AATCTCTTGA | ACCCGGGAGG | CGGAGGCTGC | AGTGAGCTGA | GATCATGCCA | CTGCACTCCA | 28380 |
| GCCTGAATGA | CAGAGGAAGA | CTCTATCTCA | AAAAACAAAC | AAACAAACAA | ACAGCAAAAT | 28440 |
| TGGCTAATTTC | AACTGGGAGG | TGAGTGGAGA | AAAGTTTAA | CTGATTTTC | TCTTGGCAAA | 28500 |
| ATTTATTTGC | AAAGCTATGG | ACAAGAACATCG | TTTGCATTTC | TATTGGTTAT | ATAGAATTAA | 28560 |
| CAGGGATATA | AAATTGCTCA | GAAACAATAA | AACAGGCAGA | GAACTGAATA | GGATTGAGTA | 28620 |
| ACCTATAAGA | ATGTGCCAG | GTAATACCTA | GTTCATT | GAAGACATCA | CATAAACTGT | 28680 |
| TCCATTTTA | AATTTTCAC | ATTTAACTCT | ACAGTTCCCC | CACCTTATAA | TCATAATAAC | 28740 |
| CTCAATGAAA | TCTTATTTT | ATTATTGAAG | TAAGCAATGT | CTCAAAGAAA | AATAGTTCCA | 28800 |
| GTCAGTTTA | ATTTGTCATT | GGAAATGTAT | ACTTCACATAC | TCCACAGAAT | CAAGATCTAT | 28860 |
| GCCTTCCTT | CAAAGTTTT | TCTCTCAACA | AAGAGCCCTA | TTTCCATCA | TACTTACCTT | 28920 |
| TGTATCAAAT | TCCTTGATGG | ATATGCTGGA | GTTATTGAAG | GCATCTGCAA | CAGGCCCTC | 28980 |
| AGTGGAGGCA | TTAGATAGAC | CTTGCTGCTG | AGTGGTGTTC | ACCATGGCGA | TGATCGCAAT | 29040 |
| GCTCAGACTC | ACACGCTGCG | TTATCATGGT | GAAGTTGAG | AAGTGCATGA | TAAGAGCCAG | 29100 |
| CCCATAGCGT | AATGAACAGA | AATCTGGACC | TAGACAACAA | CACAGATGTA | TGAGTGAGC | 29160 |
| ATCCTGACTG | AGACCCCTT | CTTTCCCTT | CTCTCACAGC | TCGATCTGAT | AGAACTTTGG | 29220 |
| ATGACACATG | AAGTCTCATT | GTCTTTTTT | CACCAAAATA | GCCAGCACTA | CAAACCCACT | 29280 |
| TTGTCAAATT | ATTTGGTTGG | CTTCAAGACA | GCGAATATGG | GATCTTATAA | CCAAGTAAAG | 29340 |
| CAAATATGGC | CATCTTCAA | GGGGATAGGA | AACACATGAT | AAATAGAGAA | AACCCACATG | 29400 |
| TAAGGCATTT | ATGTCATATT | GCTCCAAAAT | GAAGTGAATG | GGGATGACAG | TGGCAGAGCC | 29460 |
| AGTCACATAA | CCTTCTCAGC | GTCAATAAA | TTCCCTGGGC | TGTAAGTGAA | TAGTCCCAC | 29520 |
| TGTTATGCAC | ATTTGTTTAT | CACAAAGCTT | GAGAGTTTAT | ACATAACGAG | CTGCCTTTGA | 29580 |
| ATTAAGGTAT | TGCACATCCA | AGGATTCTCT | TTTAATACAT | TTGAGAGATG | GTACTTTAAA | 29640 |
| TGAGCACTTC | GACTAATTCC | CTAGTGTAA | GTCTACTTG | AAATGTTATT | GCTATGTGTC | 29700 |
| ACTAGGTCT | GCCTTCACAT | ATGTTCAACT | AAAAAAAAAA | AAAAAAACTAC | GTGGGGTGCA | 29760 |
| GTGGCTCACG | CCTGTAGTCC | CAGCATTG | GGAGGCTAAG | GCAGGTGGAT | CACTTGAGGT | 29820 |
| CAGGAGTTG | AGACCAGCCT | GGTCAACATG | GTGAAACCCC | ATCTCTACTA | AAAATACAAA | 29880 |

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|-------------|--------------|------------|------------|------------|------------|-------|
| AATTACCCAG | GCATGGTGAT | GCATGCCTGT | AATCCCAGCT | ACTCGGGAGG | CTGAGTCAGG | 29940 |
| AGAATCACTT | GAACCCAGGA | GGCAGAGGTT | GCAATGAGCC | AAGATCATGT | CACTGTACTC | 30000 |
| CAGCCTGGGT | GACAGAACATGA | GACTCAATCT | CAAAAAAAA | AAAAAAATTA | ATATGTAGAA | 30060 |
| CTATTTTAC | AAAGCTTGCA | GGTGATGTGG | TGCTGGAAGA | TATTCAATAT | ATTGAAAGGA | 30120 |
| CAAATTTTT | CTTTAAAAGC | ATCCCCATAA | AATGGAACAA | CCACAGACCA | ATATTGAAAG | 30180 |
| GGTTCCCATG | TGCATGATAG | ATTGGATTTT | TCCTGCTTAT | TTGAAGAAAA | GCACTAAAGT | 30240 |
| GAAAGAAAGA | GAAAACCTGT | GAAGACACAG | ATAAAAATAT | AATGGAAGAA | ATAATTTTA | 30300 |
| ATGGCCAAAA | AAGCTCACAG | ATAAGAGTGG | TGGTCTGGGA | AATAATTATT | TCCATTTAC | 30360 |
| TGGAGGTTTC | CAAGCTCAGG | AGAAAGAGCC | AGCCGCTTGG | TGAGAATATT | ATAGTAGGGA | 30420 |
| TTCATACATA | GGTTGGTTTA | AAATGACTTT | CCCGGGCCAG | GCGTGGTGGC | CCATGCCTGT | 30480 |
| AATCCCAGCA | CTTTGGGAGG | CCGAGGCCGG | TGGATCACGA | GGTCAGGAGA | TCGAGACCAT | 30540 |
| CCTGGCTAAC | ACGGCGAAAC | TCCATCTCTA | CTAAAAATAC | AAAATTCTAT | CTGGGCATGG | 30600 |
| TGGTGTGTGC | CTGTAGTCCA | AGCTACTCGG | GAGGCTGAGG | CAGGAGAATC | ACTTGAACCC | 30660 |
| GGGAGGCAGA | GGTTGCAGTG | AGCCGAGATC | GCACCACTGC | ACTCCAGCCT | GTGAGACAGA | 30720 |
| GCAAGACTCA | GTCAAAAAAA | AAAAAAAAGA | AGACTTTCCC | AAAACTTATT | CCACTCCCTA | 30780 |
| GATCCCAGGA | TTTATTGCTT | ATTTGGCTTA | ATTTCTCACA | GATGATTCA | TGGGGCTAAG | 30840 |
| GAAAAAGCAA | CAGGATCAGG | GGCTGGAGCT | GGCTCCAATG | TTACACTGGG | AGTATCTTTA | 30900 |
| CGAAGGGTCA | GTGTGATGCA | GAGATGTGTA | AATGTGTCGG | AATAAGCTTC | AGCTTATTAA | 30960 |
| CATAGCCTGC | AAACAAGAGC | AGTGGCTTTA | CCTTCCCTGG | TGGCAGGCTT | CCCGTCCATT | 31020 |
| TAGCTTCTGT | GGGAAATGGT | ACCACGCTTT | GTGGTGGAGT | TTCCCTGTGC | CCTGAATCTC | 31080 |
| TTTTACTACG | ACAGTCTTTT | ATCTATGGAG | AGAACATAAT | CCAAAACATA | ATACACAAAT | 31140 |
| AATTTCCCCT | TGTTAATGTT | GCCTCCTCTT | AGCATCAGTA | AAAGTTTGA | CCCAACACAG | 31200 |
| CTCTATAACT | TACATTTAT | GGGGCACTAC | TGGTATGCTT | TTGGTTACAG | GATTGTTAAA | 31260 |
| AGGAAATCTG | GCTGTAAGTT | CCAGCTGTGT | GACCTAGAGC | TAGTCATTAA | AATTCTCTAA | 31320 |
| TCATTCACTT | CCTCATCTGT | TCAATAAAGA | TAAGGCTCCT | TTCTTAGTGC | AGCTGGAAGA | 31380 |
| ATTAAATGAA | AAATTGCATG | TACTTATCA | AACCACAGAG | AAGCATGCGA | AGGTGAAGAG | 31440 |
| TGGTATTGCT | TGTAGCAGAC | CATAAGACAG | GACAATTAAA | CTAAGCTCAA | GAGCTAAGGA | 31500 |
| GGAAGGTTCC | AGAGCGGTCT | TTCCCTTCAT | TCTGATGGTG | TTTCTCTCCC | CTCTGTACCA | 31560 |
| CCAGAACAAAT | GTTCCATGTG | CCTTCGAACA | TGAAGGATGA | CATTACATAA | CACTAATATG | 31620 |
| TATTACATTT | AAAAGTTAA | AATGTTTATT | CTCATGTTTG | CTACACACAA | TGTGGACACT | 31680 |
| TGCTTGGACT | GACAAAGTCT | TCATATCACC | TAGAAAATTA | TAATGAACAG | GGACTAATTA | 31740 |

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| CTACAATTGT | GAATAAATCC | AGCTATTGTG | ACAGGCAAAG | AGAATTCATG | GCTCTAAATA | 31800 |
| TGGACATGTT | TAATTTAATA | TTTGTATACT | AATCAAATTA | TCTTGGGGA | TGCATACATT | 31860 |
| TGTTTCTTT | AGGAAAATC | CATATCCTAA | GAATATCATC | AATTTCCAT | TCATTCTAA | 31920 |
| ATTGAAGCTT | CTATGACTTT | ATTTTTAAA | TTGCTTAAAA | TCCTTCAAGA | CATCTGAAAT | 31980 |
| TTCTGTGACT | TTAAAAACAC | ATGTATCGGC | CGGGTGCAGT | GGCTCACACC | TGTAATCCCA | 32040 |
| GCACCTTGGA | AGACTGAGGT | GGGTGGATCA | CTTGAGGTCA | GGTGTTCGAG | ATCATCCTGG | 32100 |
| CCAACATGGT | GAAACCCCCT | CTCTACTAAA | AATACAAAAA | CAGCCGGGTG | TGGTGGCACA | 32160 |
| TGCCTGTAGA | CCCTGCTACT | AAGGAGGCTG | AGGCAGGATA | ATTGCTTGAA | CCCAAGAGGC | 32220 |
| AAAGGTTGCA | GTGAGCCAAG | ATCGTGCCAC | TGCACTACAG | CTTGGGGAC | AGAGCAGGAA | 32280 |
| TCCGTCTCAA | AACAAACAAA | CAAAAAAACAA | CATATATCAA | ACCTCTATTT | TATCATTCAA | 32340 |
| GGCTTTGCAC | TGTTTTGCA | CACAAAATTT | AAAAGACTTG | TCCGTACTTT | AAAGATATTTC | 32400 |
| ATAATCTGTG | ACCTTAGGAT | GAAGGATTAT | AAAGAAAGGC | ATAGATGAAA | AATTGTGTCC | 32460 |
| AAAAATATCC | TTTGTAGTAT | TACTCATGAC | TGCATAATGT | TAGAGATAAA | TTAACCTAAT | 32520 |
| AATGAGAGTC | TGGCAAGTCA | ATTTGATAGA | TTATTGTGAT | GGAAGCTATT | TTAAAATGTT | 32580 |
| TCGACAATA | TTGAATTACA | TTAGAAAAAT | GCTAGTACTC | TAGTGTACAA | AGCAGGATAC | 32640 |
| GCTGTGCACA | TCCACATACA | GGAATAGAAA | CTGATTACA | CAAGTGCCAG | TAATGACTAT | 32700 |
| TTCTGGGTTA | CAAAACAGGA | TGATCACTTC | ATTCTTGATG | ACTTTCTATA | TTTACCAAGT | 32760 |
| GATTTTGTA | ATAATTAGTA | GATACTCATT | TTATATTCA | AAGTAGCTAA | ATGTATTTAA | 32820 |
| AAGAGCAATA | ATTGGACTTC | ATCAGCATGG | CAAGTATAGT | TTTCTGCTTT | CCAAATATCT | 32880 |
| CTAGAATTCT | GGGAATAGTA | TCTCTCCATC | TAAATTTGA | ATTTGGGTG | TTGGAGATT | 32940 |
| TTATTGTTGT | TGTTGTTGTT | GTTTGATACA | ATGGACCCAA | ATGGAGGCC | AATTGCTAGT | 33000 |
| AAGATCAGGT | CAGCACCAGG | ACAGATACTG | GTTGTTGCTC | TGCCTTAGAA | GGCCTCCAAG | 33060 |
| TCTTGCTAAC | ATCTGGATAT | CAGGAGTTCA | GTCATTGCT | CTACACTCAG | ATCCTAGCTG | 33120 |
| AAGTCATCTG | TGGTCAAACC | CAGAGTTGG | ACCATTTCT | ATTTGATTC | ACTTTTATG | 33180 |
| CAAGATCCCG | TGGCTTGCT | GAAGGCAACT | CTTTAACTGT | ACATGCAGCT | GCAATTACTT | 33240 |
| ACACTCCACT | TAAAGCTTTC | CCACCAACTT | CTCCAATCTT | ATAAACACTG | AAAGCTGAAA | 33300 |
| GAGACTCAGA | GATCCTCTGG | CCCAACTGTT | TATTTTATTG | ATAAGAAAAT | TTGCGTAGAA | 33360 |
| AATTTGAAAA | GTTGCCTGAA | ACCACATGAT | GCACAGAGCC | AGCACCAGAT | CCCCTAATGC | 33420 |
| CTAGACTACT | GCTTGTCTA | CCTATTACAA | CTTCCCCTTT | GTTCCTGAA | TATTTTAATC | 33480 |
| ACAAGCTTAA | AACTCAATGG | GGTAGCTCCA | TTTGAGGTA | TTATAAAGGA | GAATTGTAT | 33540 |
| ATTTTAAATC | AAGTTTAAT | CATTTATTCT | AGAAGGAAGT | TTGATAATGA | AAAATACTTT | 33600 |

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| TAGGTTGAGC TTTGAATATT AAACATAAAC ACAACAAAAC TACTTCTCCT TGCTCTTTAT | 33660 |
| GTTACTGGAA TTGTATCAC AACCACATCAC TTTAGTTTT CTTCCCATTG TCTGTTGCTG | 33720 |
| TCTAACGAGA AAGGATGAAA AGCCCTACTT AAGTTTATG GTTTCAAATG CTACTTTGAT | 33780 |
| TTTGTATCAA TAGGTAATT CAGTTCTCG TTTCCTATTT TCCTTGAT GAGACGAATG | 33840 |
| CAGAAATCAG GCTAACATAC CAAACCATCC TAAACTGAGG TCTTTCATGG TAATGGGAAA | 33900 |
| TGTTTTCCA AAATAAGCAC AGAAGCTAAT AAAATTATGG AGGCTGAACA CTGGCATGGT | 33960 |
| TGATATGTAC TTAGAGACAC TGGAATAATT ATTAACCTAT TTGCAAACAA TTGAGAACAT | 34020 |
| GTAACAGTGT CAGAACCCCT CCCTTAAGG AGATATACCT CTAAAAAAA ATTGTGAATT | 34080 |
| CTAGTGCCAA AGTTGTAAGT AGACACAGAA AAATGAATTG AAATTAAGTT AAAGGAAAAT | 34140 |
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| TGTAAATATT ATGGTATACG CATAAGCAAA AAAACAGGTT TTTCCCTTT TTTAAGTCTA | 34260 |
| GAACTCATGA TTTTATTATA ATGGTCGTTA GATTGCTCTT AGATTCTCCT AATATCCAGC | 34320 |
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| TAGATCAAAG AGCATGAACC TGCAGTGGGA GGATATTCAA GGACTGAATT CTGCTCTGCC | 34440 |
| ATTCCCAAAT TGAGTAAACC AGGTAAAGTT TCAAAAACTC TTAGGGCTTT CACTGTTCA | 34500 |
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| GCAATAATAA TAAACAGTCA CAATATTGGC AGTCTAGCCC TCTCAGATCC ATAAATACAG | 34680 |
| GCCTACAGCA AATGAAATGT ATTTCTATAA AAGTGCCTTT GATTGGTTGT TAAATTGGTT | 34740 |
| TTAAATGTTT CTTTTTAAA GTGGATTCTT CTGGCCTGGA ATCCTCAAGA TGAGTGGGGA | 34800 |
| GGAGTTCACCC AGAAAACATA GAAGCAATTG CTTCAGTGT AGAAAAACTG AGGGCCCTCT | 34860 |
| CATCATCTGC CTATCTTCT GAGAAATTGG TGCTGACCAC AATGTCCCTG GGTGCCTTT | 34920 |
| CTTAGCTGTA CAATGAGGGC AACAGCTAG GTGATCTCTA CAAGCGTACA ATTTCTTGC | 34980 |
| CTTCAGTCTT ATTCTAACT TTGGTCATGT TCTCCTTTTC TTTTATTATT ATTATTTTT | 35040 |
| TGAGACAGAG TCTTACTCTG TCACCTAGGC TGGAGTGCAG TGGTATGATC TCAACTACTG | 35100 |
| CAACCTCTAC GTCCCTGGTT CAAGCAATTG TCCTGCCTCA GCCTTCTGAA TAGCTGGCAC | 35160 |
| GCGCACTATG CATGCGATA GGTGCACGCG CCGCTACGCC CTGCTAATTT TTGTATTTTT | 35220 |
| AGTGGAGACA GGGTTTCACC ATGTTGGCCA GGCTGGTCTC AAACCTCTGA CCTCAAGTGA | 35280 |
| TCTGCCGCC TCAGCCTGCC AAAGTGCTGG GATTACAGGC GTGAGCCACC AGGCCCGGCC | 35340 |
| ATGTTCTCCT TTTCCTGAGA GACCATTCA AATTCTATATA GAAGTCTGAA AAGACTCGTT | 35400 |
| AGCCACAGTC CCAACACAA ATCTTGTCAAG TTCTGATCAG TATTCATTC CACAGCCAAT | 35460 |

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| CCCAAGTCTGA CTAATCACAG CATCACAGTT AATACTCACA GCGTCCTTGG AGAAATGACC | 35520 |
| ATTGTCCACA GTGTCCATTG GTACCAAGTG CTTCTCAAGC CTTGCCCTAG GGTCTTCATT | 35580 |
| GAATCAGTTA TCTTTTCAG AGAGTCTCTT CATTGGAA TTAGGCAATA TTACCAGATG | 35640 |
| GAGATCCTTA TGTTGCTGTT AATGTCTTT CTCTGACTTC TCCTAAAAGT GTTCCCTCCC | 35700 |
| CTTAATGGAC CTTGGTAAG TTAGTAATAA TCCTTCTACC CAAAAAGAAG AAAAGCACTT | 35760 |
| ACCTTCACCA TTAAACCAAGT ATTTTAAGCC CTAGACTATA AGGCTAACTT GGAAAAGGAG | 35820 |
| GGAGTTTCT GTCCCTCTT CCCTTCAAA TACTTTGCA GATTGTTACA GGGATAAATA | 35880 |
| GTGAGGCCACG TGGCAGTCAG ACGGCAACAG GTTTGGCCCC ACTTTCTCAG AAAGCCTCGG | 35940 |
| CTTGGTTTG CCGCTTAATT TTTAACCTCA TTTCAAGTT CTCACTGTTA GAGTATCTCA | 36000 |
| AAAGATGTCA TCGTGTGTT CTGCTTGAA CTGTGCATAC AACCAATTCA TCAACAAGCC | 36060 |
| TTTTTTCTG AAAGCAAGGG GGCATGGGT GGAGGAAAGG GCAGGGCTCC TGAAATCAGT | 36120 |
| GATGGAGTCAG ACCCATATT CACTTCCTAG TGTTTCCCT GAGCTTGGAC AAGTCACTGA | 36180 |
| ACCTCTTGAA ATTGGCTTCC GCTTAGTAA AGCAAGGATT GTGTTACTGT ACTCATGGGG | 36240 |
| TTATTGAACA AATGAAATAC ATATTCTAAT TGGTAGTAGC TCCTCAATAA ATGAGGTGTT | 36300 |
| CATTCCCTTT CAGGAGTTCA GTTAAGTCAG CTAGATTTTC CATATGCATT TGGTGGCCAC | 36360 |
| AGCCTAATGA ATGTGAACAG TGACTGCCCT GGCAACTTCC CAGGAAGCTG CCTTGTACCC | 36420 |
| CTCCTTCCTG TTTCATATCA TCCATGTCTT CCCTAATCCA TTTCTGCTT GGCTCCCGAC | 36480 |
| TCTTGGAAATT GTGTCTTATT TGTAATCATT AATTGGAGA CTGTGGTTGC TATTGGATCT | 36540 |
| TCCTAGTGTG ACGCAACCCT TATAAAATGA AATGAGAGCC TTCCCTCTCT GGCTTATCAG | 36600 |
| CTTCAGACTT CCTTAATTGA GTTCCGCCAT CCTAGTGAGT CTCACCATAAC TCCCGAAATA | 36660 |
| ACCTGCTGGA GTAGGCTTAT CCTACTCAAC TCCTCAGATC TCTGTATTTA ATTCTATTTT | 36720 |
| ATTGCTGTTG TAGTAAATTA CCACAACTGT GATGGCTTGA ACAACACAA AATTATTTAT | 36780 |
| TTATTTACAA TTCTAAAGGT CAGAAGTCCA AAATGGGTTT CACTGAGCCA AAATCAAGGT | 36840 |
| ATTGGCAAGG TTGTGGCCCC TCCAGAGGCT TTAGGGAAA ATCCATTCT TTTCTTTTC | 36900 |
| AGCTTGTAGT GACCACTGCA TTTTTGGCT CTTGGCCTTT CCTCCACCTT AAAGCCAGCA | 37960 |
| GTGTAACATC TTGAAGTATT TTTCTCTTAT TCTGACTCTT CTGCTGTCT CTTATAAGGA | 37020 |
| CCCTTGTGAT TACACTAGGG CCCATCTGCA AAATTCAGGA AAATCTGCC ATCTAAAT | 37080 |
| TCTTAACCTA TTAAACATGT AAAGTCCCTT TTGTCATATA AGGTAATATA TTTACAGGTT | 37140 |
| CTGGGGATTA GGACATGGAT ATCTTGAG GACAACATTC AGCCTACCTT TTTGAGGGAT | 37200 |
| AGAGGGGTAG CAGGAAGAGT TGAAACAATT CCTTCCTTTC TTTATTTAAA AATTCTGGTT | 37260 |
| ATTGATTTAT TATAGTTATC ATGTGCCTGA TAAGCCAATG AAAATAGTTA TAATGGCCAG | 37320 |

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| GGGCAGTGGC TCATGCCTGT AATCCCAGGA CTTTGGGAGG CTGAGGCAGG AGAATCGCAT | 37380 |
| AAGCCCAGGA ATCCAAGACC AGCCTTAGCA ACATAGGGAG ATCCCGTCTC CACAAAAAAA | 37440 |
| TGCAAAATT AGCTTGATGT TGTGGCACAT GCCTATAGTC CCAGCTACTC AGGAGGATTG | 37500 |
| CTTGAGCCCT GGAGTTCAAG GCTGCAGTGA GCTGAGATTG CACCACTGCA CTCCAGCCTA | 37560 |
| GGCAATAGAG CAAGACCCTG TCAGAAAGAA AAAGAAAGAA AGAAAGAAAG AAAGAAAGAA | 37620 |
| AGAAAGAAAG AAAGAGAGAG AGAGAAAGAA AGAAAGAGAA AGAGAGAAAG AAAGAAAGAG | 37680 |
| AGAAAGAGAA GAAAGGAGAA CTTTCTTGGC TTAATTTACC CAAAAGGTAT GATATTTCT | 37740 |
| TAATTTGCAT AAGGCAGAGC ATGAGCTGAT ACCAGTTCTG GTAGAAAAAG TAGGTGAGAC | 37800 |
| TGGATCCCCC AAACAAGAGT AAATATTTAA TATAATAAGG AAAGAGTGGC CGAAAGTATT | 37860 |
| CAATGCCACA AGTAAGATT AGAGTAGATT TTTCAAAC TG CATAATTTGT TTAAAAAGCA | 37920 |
| TAATTTATA GCTGGATTTT GCAAGCTCTC TGAGGGGATC TTGTTCATTT TGAGAATCAC | 37980 |
| TATATCCACA ATTCTTGGCA CAGTGTCTGT CCTATGGTGT GTGCTATGAT CCAAATGTCT | 38040 |
| GTATCCTCTC AAAACTCATG TTGAAATCCT AACCCACAAA GTGATAATAT TAGAAGGAGG | 38100 |
| GGTCTTGAGG CAGTAGTTAT ACCATGAGGG CAGAAACCTC ATCACTAGGA TTAGTGTCCCT | 38160 |
| TATAAAAGAA ACCCAAGGAA GTTTATTCAA CCCTTCTGCC ATGTTAGGAC TCAGCAAAAA | 38220 |
| GATGGCTACC TGTCCCTCACC AGACACTAAA TTTGCCAGGG CCTTAATCTT AGACTTCCCA | 38280 |
| CCTCCAGAAC TGTAAGAAAT AAATTTTTG TTGTTTATAA GTCACCCAGT TTATGATATT | 38340 |
| TTGTTACAGC AGTCTGAACA GACTAAGACA GTACACGCTT AATAAACATT AGTTTACTGA | 38400 |
| ATGAATGAAT TCTTGCATTG CTTCACCAACC AACAAATCAAG ATCTCTGTAG CTGGTTAAC | 38460 |
| CCCCTCACTC CCAATCATGA TTTTCATATA ACAAAAGTTAA CTCAGTTAAA TCAACTCAAT | 38520 |
| AAGGTATACA TTAAATGAAA TTAAAGAAGT TGTAACATT ATAAACATCA AGAGTAATGT | 38580 |
| AGAAGAAAAG TCCAGAGATC CTTAAAAATT TAAGCCTCTC TGGCCTGACA TTAACAGCTA | 38640 |
| AGGCAGGAAC AGAAAACCAA ACACCTCATG TTCTCACTTA TGAGTGGGAG CTGAACAATG | 38700 |
| AGAACATGTG GACACAGGGA GGGGAACAAAC ACTCACTGGG GCCTGTTGGG GGAGGATGGG | 38760 |
| GTGGGGGTGT GGGAGAACAT TAGGTAAAAG AGCTAATGCA TGCTGTACTT AATACCTAGG | 38820 |
| TGATGGGTG ATAGGTGCAG CAAATCACCA TGGCACACGT TTACCTATGT AACAAACCTG | 38880 |
| CACATCCTGT ACTTGTACCC AGGAACTTAA AAAATAATAA TTTTTAAAA AACAGCTATT | 38940 |
| TCCAATCAGA GCAGTTCAAT TCCATACAAT TATTATTATT ATTATTATTA TTATTATTAT | 39000 |
| TATTATTTTG AGATGGAGTC TCACTGTCGC CCAGGCTGGA GTGCAGTGGC ATGATCTCAG | 39060 |
| CTCATTGCAA TCTCTGCCTC CCAGGTTCAA GTGATCCTCC CGCTTCAGCC TCCTGAGTAG | 39120 |
| CTGGGATTAC AGGTGGGCAC CACCACGCCT GGCTACTTTT TGTATTTTA GTAGAGATGA | 39180 |

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| GGTTTCACCA | TTTGGCCAG | GCTGGTCTTG | AATTCTGAC | CTCATGTGAT | CCTCCTGCCT | 39240 |
| CGGCCTCCA | AAGTGCCTGGG | ATTACGGGCT | TGATCCACTG | CGCCCAGCCA | ACATACTATA | 39300 |
| TTTTTTTTG | ATAAATTTTC | TGTATTCTAG | ACATGACATT | AGCTTCCGAC | AATATTAATT | 39360 |
| TATTAAGATC | TGACCCATGA | CATGACTTCA | TAAGAGTTCA | GAGTCCACTG | AATGAGACCA | 39420 |
| CACACAGAGA | CAGACAACTA | GAATGAAGGA | TGATAAACAT | GAACAATACA | AACTTGACACA | 39480 |
| GGTGAUTAGA | AAAGAACAAA | TGAAGACTCC | TGCCAACTGG | GGGTATCAGG | GGAAGGCTTC | 39540 |
| CCAGGCAGAA | CAGGGCTGCG | CCAGTCTCCA | TGTGTGGTAT | GAATAAGTCA | GTAATACAGG | 39600 |
| GGAAGCACCT | TCCAGAAAGA | GCAAACCCGT | TGAGGCTTGG | TGTGAGGAAT | AAGAAGTGTC | 39660 |
| CAACATGACT | GGGGATTAAA | GTACAAAGGT | ATAAAGGAAA | TGTGGTGAAC | TGACTGGAAA | 39720 |
| GATAAGAATT | TTTTTTAACCA | GTTACTTTTC | CCAATAGTAG | AATTAACCTAG | ACAGGAATAG | 39780 |
| AAATGGAAGA | AGTTTTTATG | TTCCCTTAGA | ATGAAAACTA | TACATTTTT | AAGAATTATA | 39840 |
| TGAACAAAGGA | AAATGTGACT | CAAAGGCAGA | AAATGATAGA | ATTTTATTAT | AGGGCAGAAA | 39900 |
| ACAGGATCTG | GCTAAATTAA | ACTAAGTACT | CTACTATACT | ATACCATATG | CTATATTCTT | 39960 |
| GAATGGGAGA | AGTAATACCA | TAAAAACTAT | TGATTCTTCC | TAAATTAGTA | AACACATTGA | 40020 |
| GTGAAAATCC | AAGAGGAAGA | AAGAAAATG | GAAGACAAAC | TGGAAATAGC | CCAAATTTTC | 40080 |
| ATCAGTGGAA | GACTGAGTAC | TTTGTGATAC | ATAGTCATTG | CAGAAAATA | ACACAGTTAA | 40140 |
| AAAGAATGAA | TCACATCTAT | AACATTGAC | CTGAATACTT | TCATATAATG | TAATACATTT | 40200 |
| TTAAATGAGT | AAAGCAGATA | CTAAGGACGT | ATAAAGGGAC | TCCATTTTT | TCTGAATATT | 40260 |
| AATCAAGAAA | ATTCTATATA | TCTGTATCTT | TGTTTACATA | AGATTGTGTG | AGCCATAATA | 40320 |
| GCTGTTGACT | TGGTTATCA | GGTTTGGGTA | AACAGTTAG | TGGTAAAAAA | AAGATGTGTA | 40380 |
| AGACTTGGCC | GGGTGCAGTG | GCTCACATCT | GTAATCCCAG | AACTTTGGGA | ATCTGAGGCA | 40440 |
| GGCAGATCAC | TTGAGGTCAG | GAGTTCCAGA | CCAGCTTGGC | CAACATGGTG | AAACCTCGTC | 40500 |
| TCTATAAAAA | AACTACAAAA | ATTAGCCAGG | CATGGTGGCG | CACACCTGTA | GTACCAGCTA | 40560 |
| CTCAGGAGGC | TAAGGCAGGA | GAACCGCTTG | AACCCGGGAG | GTCGAGGTTG | CAGTGAGGTG | 40620 |
| AGATCGCGCT | ACTGCACTAA | GCCTGGCAA | TGACAACAAA | ACTCCGTCTC | AAAAAAAAAA | 40680 |
| AAAAAAAAGTG | TAAGACTTAG | CAAAAAGGTG | ACCAAAAAAA | AGCAACATT | ATAAACTATG | 40740 |
| GATGTAAAAC | TCTATGTATG | TGTGAGTGTG | TATACATGTG | TGAATATACA | TAGGATACAT | 40800 |
| TTTTGTCTGT | ATGTGTATAT | GTACATACAT | GCATGTATGT | GTATGTGTG | GTATATATAC | 40860 |
| AAGCTTTTTT | AAAATGTTT | CAACAATATT | GAATTACATT | AGAAAAATGC | TAGTACTGTA | 40920 |
| GTGTACAAAG | CAGGATGCGT | TGTGCACATC | CACATACAGG | AATAGAAACA | GATATATACA | 40980 |
| TACACACACACA | CTACACACAC | CCCTATACCT | ACACCAAATA | TACATTGAGA | GAGAGAGATA | 41040 |

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| GAGAAAATAG TAACTAAGGT AGTTAATTCT GGCCACAAGG ATTTTAGAT GAATCTGACT | 41100 |
| TTCTTCCTTA GGTTTTTTT GTATTGTTA AAGTTTCACA CAAATAGCAT TTATTTACTG | 41160 |
| TATAATCATA AAAGGCAAAA ACCTATTTG ATTTAGGAA AACACAAAGC ATCCAAACCA | 41220 |
| AAAATCTCAA CTTAGGAAAT AGCGGGAAAT CTAGGGAAGT CAACAGGACC AGGTCACTGAC | 41280 |
| GGTCTTTAT GCAATGTCCA GGAGCTTGAA CTTTATCTTG TCGTTCCAT ATTTCCTCAA | 41340 |
| AACAAATGTG TGTGGACGCA GAAATGGAAA TGACAGCAG TGCACGTGAGG TCACAGGAAA | 41400 |
| AATACAAAAC AGTTTTCTG AAGTACTAAC TTCACTCAA ACTTCGGGAA ACATTTAAA | 41460 |
| AATGGTTTA AACAAATTG ACTAAATTG ACAAAATTAG TCAAATGCAA AATTTTCATT | 41520 |
| TTTAAAAGGA AATAAATTG AGAGGAAAAA ACAGATGTGA AAAAGAATAC ATGAAATAGT | 41580 |
| ACATGAAGGA ATACATGCAC GTGGCATACA CTTGAATCCA TGTATATGCC AGGTTTCTT | 41640 |
| GTGTTGCACA CAAGACCAAC TCTGAAGTTA AAGATAACCC AGTAGAAAAA ATTAATGAT | 41700 |
| GGGGAGTAAT TAAAATGTT TCAGCAGGAG TAGGACATGA TTTTTATATT TAGACTGTTT | 41760 |
| AGTCGGCTAG TTATGTCTGA CGGATAGAAG TGAGGACACT CCTAATTGAA AAGTAAGTGC | 41820 |
| TACTAAGAAA CTCAACGTGG GGGTCATAGA ATGAAGCCAG ACTTTGTTC CCAAGCAGGA | 41880 |
| GACAGATGCA GATAAGAGGG AATGAAGATG AAGTAAGGGC TGAACCACAG AAGCTCGCA | 41940 |
| TCATAAGTCA TTGTATTCT CTGAGTGAAC ATCATAGAAC TTATTTACTA TCTGGTCACA | 42000 |
| AAATGCCACT GACATGAAAAA GAAATCGGGT TGAAATGGCT CTAGACCAAG ATTCCCAAGA | 42060 |
| CATCAAGAAA TCACCAAAAG TTGCCTCAGG TTCACAAAAA AAGATATTCC AAGGGAGTTC | 42120 |
| TCCAAGTAAG TAAACACTCA TTATTCTAT AAGGCTTAGG CCACAAGACC TTGGCTGAGA | 42180 |
| CCCCTGTCTC TGTGATCTGG TCTGTACAC ATTGGAAGGG CCATGACTGA TTTCTACCTA | 42240 |
| GACATTTAAG GCTGAACGGA GGCTGAAGAA CCTCTTGCTT GCTTTCCCAT AGACTCACAT | 42300 |
| CTGATAACAG CCCTCATCTT AGGCCCGAGA GGGCAAGAAG AGGTTAAGAA GGATCAACCA | 42360 |
| AAGGTAAAGT ACACCAAGAA AAGAGCAGCT CTTGGTTAG AATTTTAAGA TAAAGAGAGA | 42420 |
| CACATAAAAG CTACTGTTGA AAAATAACAG AAGGAACAAC GTTTTATCTA ATCAATAGAT | 42480 |
| GGAACAAAGAC AATAGAGGAC CATCTCAACA ATAACCTAGA ATACCATGGA AGACAGACAT | 42540 |
| AAATCATCTG TATTGTCCT GCTCAAGACT TGCCATATGC CAGGTATGGT GGCTTATACC | 42600 |
| TATAATCCA GAACTTTAG GCTAAGGCAG GAGAATTGCT TGAGCGCAGG AGTTCCAGAC | 42660 |
| CAGCTTGCT CTACAAAGTT CTCTGGGGT TTTTTTCGT TTGTTGTTT TTTAGGCAGG | 42720 |
| TGTGATGGCA CACACTGTG GTCCCAGCTA CTCAGGATGC TGAGGTGGGA GAACAGATTG | 42780 |
| ATTCTGGGAG GTCAAGGCTG CAGTGAGCTA TGATTGCTCC ACTGCACTCC ACCCTGGGTG | 42840 |
| ACAGGAAC TG CAGACAGCCT CTAGAAGTTG AATCAGCCTC TACCAAGAAG CTTCTACCGG | 42900 |

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| TGCAAAGAAC | TGAATTTTC | AACAAACCTG | AGGGAGCTTG | GAAGTGGAAA | TTTCCACAAT | 42960 |
| CAAGCCTCTG | ATGAGAATT | AGACTCAGCC | AACACCTGGA | TTGCAGGCCAC | ATGAGGCTTG | 43020 |
| AAGCAGGGAA | CCCAGTTAAG | CCATGTCAGA | ACTTCTATCC | ACAGACCTTA | GGTAATAATA | 43080 |
| AATGTGTGTT | GCTTTAAGCC | ACTAAGTTT | TGCTAATTG | TTTTGT | AACA ATTATATATA | 43140 |
| ACTAGTACAC | ATGAATAGTA | GAATCTAATA | TCAGCCATTG | ACTTCAATGA | AGGAAAAAAC | 43200 |
| AGATGTGAAA | AAGAATACAT | GAAATAGTAC | ATGAAAGAAT | ACCTGCACAT | GGCATACACT | 43260 |
| TGAATCCATG | TATATGCCAG | GCTTTCTTGT | GTTGCACACC | CAGACCAACC | CTGTAGTTAA | 43320 |
| AGATAACACA | GTAGAAAAAC | TGAAGAGTTA | CTGAGAGTAA | TTAAAATGTC | TTAAGCAGGA | 43380 |
| GTGGGGCATG | ATTTTTATTT | TTAGACCGTT | TAGTCTGCTA | GTTATATCTG | ATGTTAGAA | 43440 |
| GTGAGCCTAT | CTCTGGTCCC | ATGTTCTTAG | AGAGAGTACT | TTTATCTCTT | TATCCATCTA | 43500 |
| ACATCTCTAA | TTTATGTAAC | ATCCAAGTC | CTCATTAAATC | CTGTGTTATT | GCTGTTGGAA | 43560 |
| GTCCATCTAT | CCCCCTCAAGA | ACAGAGCCTG | AAATTCCCT | TTGAAAATT | TCCATTTCATC | 43620 |
| ATAATCTCAA | ATTTCTCCAA | TGTCATTTTC | CACCTAAATT | TCATGTGTGA | CTTGAATCTC | 43680 |
| AAGACTATT | ATCTGCCCA | GGTATCTGTT | TGATGCCTGG | ATATGTCTGA | ATTATTATTA | 43740 |
| TTGTTATTAT | TATTATTTT | TTTTTAAATG | GAGTCTTGCT | CTGTCACCCA | GGCTGGAGTG | 43800 |
| CAGTGGTGCG | ATCTCAGCTC | ACTACAACCT | CTGCCTCCTG | AGTTCAAGTG | ATTGTCCTCC | 43860 |
| CTCAGCCTCC | CCAGTAGCTG | GGATTACAGG | TGCCTGGCAC | CTCGCCCAGC | TAATTTTTT | 43920 |
| GTATTCTTAG | TAGAGATGGG | TTTCACCAT | GTTGGCCAGG | CTGGTTTG | ACTCCTGACC | 43980 |
| TCAAGTGATC | CACCCACCTC | AGTCTCCAA | AGTGCTGGGA | TTACAGGTAT | GAGCCGCCAC | 44040 |
| ACCCAACCTT | AGACCTCATC | CTACCCAGCT | CACGTGTCTT | TTAACCTTT | AGCTGAGGTT | 44100 |
| GTAGTTTAA | CTTATTGCTG | CTTGAACCTA | TTTCAATGCA | AAAGTTCTAA | AAGAACTCAG | 44160 |
| CCACCAAAAT | TCCCTTGATT | TGCTGCACTG | TACCAAATAT | TAGTCTTAAT | GAAATACAAG | 44220 |
| ATTTGTTCA | GGATCTCAAG | CCCAATATT | TCAACTGTAG | GCTTCCCAGT | ATCCAAGGTT | 44280 |
| TACGCAGGAG | ATTGGCAGTG | GGTACATTCC | CAGGGTCAGT | GGTTTTATC | CAGGAAGGAA | 44340 |
| CCTCAGAAC | ACCTGGGGAA | TTTTAGCAAC | ATACACACCA | GTGTTCTCAG | GAGTGAGGCT | 44400 |
| CAGGTATGTG | GATGGCAACA | ATACTCCCT | TATCAAAAAG | CTGCCACCAC | ACCAGACAAA | 44460 |
| TGAAAAC | TGCTTAATTA | TACAGCTTGG | CCTTACCTAA | TGGTTCTCAA | TTTGGATGG | 44520 |
| ACATTCAAAT | CACAAGGGTA | GTTGGTTTT | TTTGTGTTGT | TTTGTGAGA | CAGACTCTCA | 44580 |
| CTCTGTCGCC | CAGGTTGGAG | TGCAGTGGCG | CCATCTCGGC | TCACTGCAAC | CTCCACCTCA | 44640 |
| TGAACGTAGT | TTTAAACAGC | ACTAGTGCCT | AAACCAGACT | CCAGAGATCA | TGATCCCTAA | 44700 |
| TCCTATCCCT | ACCCCTGCGGT | ACTCATTCTG | AGATATGCC | TGGGTAATAA | GAATTTAGA | 44760 |

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| AGGTACTCAG GTGATTCTAA TGTCAACCA GTCTGAGAAC CATTGCAGA CTTCATATAG | 44820 |
| ATACTTATT CCAAACAGCT GAGCTGGACC ATAGCTAGAA GAAGGAATAG AGATGAATGA | 44880 |
| GAGTTCATAT TTTCCATAGA AAGCCGCTGC CCTCTTCTAA ATGTGAATGG AAGTTCTGGA | 44940 |
| GACCCCTATC CTAAGGTAGA CAGATGACAG ATACACTGGA GAATGCTGAA GGAAGCAGAT | 45000 |
| AGGAGTCTAG GCTTAGACCC ACACCTTCCA AGACGTACTA CTCATGCCTG ATGAAGTATT | 45060 |
| ACCAAACATA CCCCTGGGCC AATAAACAAA GCAGGAGCAA ATGTGTTGT GTGTGTATAA | 45120 |
| CTTTCTACAC AAAATACAGA AAAAAGTGAT TCAATGTTCA GCATAAAATAA AATTTGTGT | 45180 |
| TTTAGTATTG TTTTATTTC AAGTACATCT TGGTGAGAAT GCATTATTT GAACTGGATA | 45240 |
| AAAGCCCCC ACTACTGAAT CCCAGGTCTC TCTATGAAGC CTGAATAGAG GCACTGTAAC | 45300 |
| TCTAATGGCC AAAGGGCTGG CCTGGAAATT CTCCCTTCAG CTGAAAAAG AGAAAAAGAA | 45360 |
| TAATCCAAGC AAACAAACAA AACAAAGAAA TGAGCAAACC ACTACAACAC AAAACCTTG | 45420 |
| GGATGAGATG AGTACTAGAC TGGGAAAGTG ATAGCTCTGG TATTGATGTG TGTGTGTGTG | 45480 |
| TGTGTGTGTG TGTGTGTGAG AGAGAGAGAG AGAGAGAGAG CACATGAGAG CACACACAAG | 45540 |
| ACCCTATAGA GGAACCAAGT AGCTTATCTT CTTCCCTTGGG TTCCCTCTATC TCATAGCCTA | 45600 |
| GAAGACATGG GGTGATCCTA GCCCCTGGTA GTGTAGGACA AGGTAGAGTG GGACTGTGGT | 45660 |
| TTTAAAATAC TTTTAGACC GGGTGTGGTG GCTCATCAAC ACTTTCGGAG GCGGAGGTGG | 45720 |
| GTGGATCACC TGAGGTCAGG AGTTTGAGAC AAGCTTGACC AACATGCTGA AACCCCGTCT | 45780 |
| CTACTAAAAA TATAAAAATT AGCTGGGCAT GGTGGCAGGC ACCTGTAATC TCAGCTACTC | 45840 |
| AGGAGTCTGA GGCAAGAGAA TCGCTAAC ACAGGAGGCA GAGTTGCAG TGAGCCAACA | 45900 |
| TCATGCCATT GCACCTCCAGC CTGGGTGACA AGGGTGAAAC TCTGACTCAA AGTTAATTAG | 45960 |
| TTAATTAAAAA TAAAATAC TTGTTATTTGG GGCTGGGTGC AGTGGCTCAT GCCTATAATT | 46020 |
| CTAGCACTTT GGGAGGCCAA AGTGGGAGGA TCACTTGGGG GCAGGAGTTT GAGACTAGCC | 46080 |
| TGGGTGACAT AGCAACATGC CATCTCTACA AAAATTAAA AAATAAAAAT TAGCTGAGTG | 46140 |
| CAGTGGTGCA CACCTGAAGT ACCAGCTACT CATGAGCCTG AGGTAGGGGG ATTACTGGG | 46200 |
| GCCCAGGAAG TTGAGGCTGC AGTGAGCAAT GATTGGGCCA CTGAGCTACA GCCTGGTGAC | 46260 |
| AGAATAAGAT GCTGTCTCTA AAAACAAAAA ACAAACAAAA AAAACCCAAA AACCTTCTTA | 46320 |
| TTTTAAAATG ATTTCAAACA TATAGAAAAA TCAGAAAAAC AGTACAAAGA ACACTCATAT | 46380 |
| ACTTTTACG TAGATTGTTA ATATTATACA TTTGCTTTTT CTCTACCTAT CCATTTATTT | 46440 |
| ATATGTCTTT ATATCTCTTT ATATATATAT ATACTTACTG AAACATTGAA AAGTTGCAGA | 46500 |
| TAATCATCTT CCTATATTAC TCAATACTTT ATCTTAAAT TCAAATTCAA ATTTTACCA | 46560 |
| CTGTCCCAAT CATGTCTCTG ACAACACTTT TTCCCTCAA TCCAGGATCA CAAATTGCAT | 46620 |

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| TTGGTTGCTA TCTCTTAGT CTCTATTAAC CTGGAACAGT TTCTGGCCT TTCTTATCT | 46680 |
| TTCATGATAT GAAATGACAA TGAATTTA AAGGTTAGGT GTTTGTAGA TTAGTTCACT | 46740 |
| TTTAAAACCTT CACAACAAAG TGCCAAAGAT GTCTGGCAG CAGTGCTCAA AACAGGTTGG | 46800 |
| AGATGCATAG GAGCCACAGA GAAGGGTCTG GTTCAAAGGC CAGTGGTCGT CTCATTACAG | 46860 |
| CACTGCTCCA TCAGGTCTAG GTCTGGAGAC TTGGTAGCAC GTCTATGCC CCAAAGTGTG | 46920 |
| TAGAGAATGT TGAGAATTGC CTAGGGTGGC AGACTTAGAG GAAGAAAGGT TGGTATGAGG | 46980 |
| CCTGTCTAAA ATTGAATTG GCTATAGAGT TATGGAAGGG TTTAGGCCA TGTCTGGGTG | 47040 |
| GAATCAGATT CAGTCAGCAA GTAAGGGTC TTTGGGAGGT GAGCTTAGGC TGTCTGGGCC | 47100 |
| CCTTCGAGGA GGGCAGATT TATGGGAAAG GGCTCTCCTA GAAGAACCTA GTTCTAGGATG | 47160 |
| AGCAAATCAC GCAGGTTCAT TCTCCACTT ACCCTAGCAC TTCCTAGGCT CAGTGGTGGT | 47220 |
| TTTGAACTTT TCCCATCCCT GCAATTACTC CATAAAGGGA ATGTGCAAGG AAGAGGGAG | 47280 |
| GAAAGAGATG TGAGTTCTGC CAGAGGCTTC ACTGTTCAT TCCCAGATT ATTGAAACC | 47340 |
| AACCCCTCCCT CTGTACTTCA TGCTCTCCAA GCTCATGGTC CTGGAACCTC ACATTTACAT | 47400 |
| AATACGGAAT TTTTTTATT ACCCTTGATC TTTATGCATG CAATCTTCT GAACACCCTG | 47460 |
| GACCCCCCTCC TTCTCTGGT GACCTTTCC TTCTCCAAAA CATGGTCAC CAGTTATTAC | 47520 |
| CTCTGCAGCA GTGGCCTTC CAGGAGTTGC TTGCTGCTT GTTCTTCTCT CAGCCTCAAC | 47580 |
| ACTTTTTCTT ATCTTGTAC AGCATTAGA ATGTAATGTT TTGTTTGTGTT TTTAAACAC | 47640 |
| ATCTTGGCTT TCTGGAAACT TATATAGAAA ATAATTTTT TTCCCTCAAT AGATATATGG | 47700 |
| CTAGGGTCCA GCCTAATGTC TGCCATAGAG AAGCCTAATG TCCAGCCTAA TGTCAATAAA | 47760 |
| TGTTTATTGT GGGCATAAAG GAATACATT TAAAATAATG GAGTGTGTT GTAAAATTAG | 47820 |
| GATTATTAGC TTGAGTCATT TAAAATCATC CACAAGAACC AGATCAAATG TACATGTCTT | 47880 |
| TAATACTGGT GAAAGAAGTA GTTACGCTGT CTTAAAGGCA AAACGATATG GACATAGCCA | 47940 |
| CCAGAAATAC AAGAGTGCCA TCTCTGGTA AACCTGTTAG CAGACAGAGA AGACACTGAG | 48000 |
| AAGCCATGTA AAATATACTT GATAATGTT CTCTTATGTA GGTTATGTA AATGTGGAAG | 48060 |
| AAAGATGGAA ACAAAATTGA GAGACGTGGT TATGGCATT TCCAGGAAAA TTGAAAATA | 48120 |
| TTTTCTCTTA ATAATTCATG CAAAATGTA TGATATTTTT TAATGCAGAA GAAAACAGTG | 48180 |
| TAACAAAAAG CATTATAATT ATGGCAAATT GTTGAATGCT TTCTCCACCC CTGCCCTTTC | 48240 |
| CACTCAGAGT AGGAATGAAA TAAGGATGTC AGTTATCACA CTTTATGTTA AATATTATAT | 48300 |
| GGGAGATGCT AGCCAGTGTGTA CTGTGGAAAG AAAAATAAT GTTAATGTTA GATGTTAATG | 48360 |
| GTGTAAATAT TTCAATTGAA AGGCAAAGAT TGTTAGAATC GACTTAAAAA TGCAAGAAC | 48420 |
| AAACACGTG GCTAGAAGAG AAACATCTTA AATATAAAAA CACAGATAAC TTGAGAATAA | 48480 |

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| ACATATTAAA ATATATAACAC TATGCAAACA GAAAGCATAA AAAGACTAAA ATGGCTATAA | 48540 |
| TAATAACAGC TAAAATAGAG TTTAAGACAG AGAGTGTAC CAGAGACAGA GTGATATTT | 48600 |
| GTATTGTTAA AGGAGTCAGT TGCCAGCCTG GCCAACATAG AAAAACCCCA TCTCTACTAA | 48660 |
| AAATACAAAA ATTAGCCAGT CATGGTGGTA TGTGCCTGTA ATCCCAGCTA CTCGGGAGGC | 48720 |
| TGAGGCATGG GAATTGCTTG AACCCAGGAG GCGGAGGTTG CAGTGAGCCA AGATCACACC | 48780 |
| ACCGCATTCT ACCCTGGGTG ACAGAGTGAG ACTCTGTCTC AAAAAAATAA AATAAAATAA | 48840 |
| AAATGCCGAG GTGGCGGAT CACCTGAGGT CAGAGGTTCG AGACCAGCCT GGCAACGTG | 48900 |
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| TAGACAATTTC TACAATCACA TTTGGAGAGT TTAACACCCCT TTTTTGGTA ATGATGCAAT | 49320 |
| AACTAGACAA AATATCAGTA AAGACACAGA AGATCTGAAC AATCCTATCT ATTATCTTGA | 49380 |
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| ATGATATATA CATCATGATA GATCATATTTC TTTTTTCTT TTATTTTAG TTGACATATA | 49500 |
| ATAACTGTAC ATATATACGG GATAAAGAGT GATATTTTA TATGTGTACA CAATGTGTAA | 49560 |
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| TGAGTATTCA AAATTCTTT CTAGCTTTT GAAAATATAC AATAATGAG AGTTAACCAT | 49680 |
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| TTTGTATACT GATTCCCTTC CCTTTGGATA AATAGCCAGT AGCAGATTTT CAGCCTCATC | 50160 |
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| TTATTGCAAG GTGAAAGTAC ACGCTGATAG CAGAGTCAGG GTCGGCTACT TCAGCACCAA | 50340 |

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| ATGGGCATTG TTGTTAAATA TGTGTTGGGT GGTCTCTTGA ATGTGCATGC AATATTGCCA | 50460 |
| TACACGCTAG TACATACATC ACATGTATTA TTAGCATTTC AATTCTCTAC CCAAGGGTGT | 50520 |
| GTTTCTTACT ATTAAAATGA GTATATGTCA ACCTGAGAAC ACAGCTTGTG GGTTTCTGCA | 50580 |
| CTTGCACGAA CTTAGGGATT TTCCCTCCTG CTCTTCTACC TCCTTGACTG AGGATATTCT | 50640 |
| AACCACTAGC CCCAGATGCA GTTTGTGTA TGTCAGAGA TTTGTTCTCT CCATCAATTT | 50700 |
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| GTTATTTATA TGGTTTGGCT GTGTCCCTAC CCAAATCTCA TCTTGAATTG TAACTCCCAC | 51000 |
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| TCCTATGCTG TTCTTATGAT AGTGAATGAG TCTCACGAGA TCTGATGGTT TTAAAAACGG | 51120 |
| GAGTTTCCCT GCACAAGCTC TCTCTTGCC TGCTGCCATC CATGTAAGAT GTGACTTGCT | 51180 |
| CCTCTTGCC TTCCACCATG ATTGTGAGAT CTCTCCAGCC ATGTGGAACG GTAAGTCCAT | 51240 |
| TAAACCTCTT TCTCTTGTAA ATTCCCCAGT CTCAGGTTAA GTCTTTATTA GCAGCATGAA | 51300 |
| AACAGACTAA TACAGTGATG TTGAGCATTC TTTCATATAT TTGTTGCCA ATTGTATGCC | 51360 |
| TTCTTTGAG AAATGTCTGT TCAGTTCACT TGCCCAC TTTAATGAAT TGTTGGTTGT | 51420 |
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| TAATCAATCT CTCCAAACAA ATCACAAAAA ATTACAAAAT ACATTGTACT ATATAATAAT | 51720 |
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| AACTTAAATT GCTTATAGTA GAAAACAAAT AAAGTCTAAA ATGAAAGTCC AGATTCTACA | 51840 |
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| TTGAGGCTGC | AGTGAGCCAT | GTTCACACCG | CTGCACTCCA | GCCTGGGTGA | CAGAGTAGGA | 52380 |
| CTCTGCGTAA | AAAAAAAAAA | AAAAAAAAAA | GTCTCAATT | ATGAATTGAG | TTTAAAGTAA | 52440 |
| TACTTGACTG | GTGGTACCCC | AGCTTCCTGG | CAAAAGCAGA | CACAAACCCC | CTCTAGAAGA | 52500 |
| AAGAACATCC | CAGTCCTCAG | TGACCCATAA | GTAATTTAC | CAGAAAATA | AAGAAGTTAC | 52560 |
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| GGAGCTGGGT | GCTGTGGCTC | ACGCCTGTAA | TCCCAGCACT | TTGGGAGGCT | GAGGTCAGGC | 52680 |
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| CTGGGCAACA | GAGTCAGACT | CTGTCTAAA | AATAAATAAA | TAAATAAATA | AATAAATAAA | 52920 |
| TAAATAAATA | AATAAATAGG | GATCAGGAGG | TTTGAGTAAA | TAAGGTTAAA | AGTGATGGTG | 52980 |
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| TTGTATTAGA | GTATTTAGAT | CATTTACCTT | AAGTGTGATA | ATCTATATGG | GTAGAGTTAA | 53160 |
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| AGTATACATC | ATTAATTTAT | CGTAGTTCAT | CTAAAAGTAT | ACCACTTATA | TAAAATAACA | 53400 |
| TTATTTTCAT | TTCCACTTCT | TTTGCACTGT | TGTTGTCATA | CACTTTCTT | TTGTGTGTGT | 53460 |
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| GCTGGGATTA | CAGCGTGCA | CCACCACGCC | TGGTTAATT | TTGTATTTTT | AGTAGAGATG | 53640 |
| GGGTTTTGCC | ATGTTAGCCA | GGCTGGCTT | GAACTCCTGT | CCTCAAGTGA | TCTGCACGCC | 53700 |
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| TTAAATGCTA | TAAATCACAC | ATTACATTGT | TAACATT | TGTAAAATA | GTCAACCACA | 53820 |
| TTTTATGGAG | AAAAAATATT | ATCTGTTAC | TCACATAGTT | ACAATTTCT | AGTACTGTTT | 53880 |
| ATTCCTTGT | ATAAAATAGGA | ATTTCAATAT | GCCTAAGGGA | CTTTTATCAT | TCTGCCTAAA | 53940 |
| GGACTTTAA | AAAATATT | TTATTGTTCT | AGTCTGCTGA | TTAGATGTTT | ATTGCCTTTA | 54000 |
| GGCAGGGAGA | TAAAAAATA | CTACAATATT | TTAGTTAATG | ACTGTGTCAA | TCAAAAGAA | 54060 |

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| CATATACAGT ACAAAATGTA TCATAAAACT CTCACATATG ACTAGATAAA TTCCTCCTC | 54180 |
| TTTCTCTGT ATTAAATTGT CTTATTCAC CCTCATTGG GGGGAGTTT TTTGCTTGGT | 54240 |
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| GCCATCACGC CCAGCCTAGT TATTGATTTC TATCTTCATT CCACCTTGGT CAGAGAATAT | 54780 |
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| GAATTTCTA TTTCTCCCTT CAATTCTGTC AGTTTGTTT CATGAATATT AGGGCTCTGT | 55080 |
| TGTTAGGTGC ATGTATGTT ATAATGTTAT GTTTCTTGA TGAATTGACA CTTTTATCAT | 55140 |
| TACAAAATAC CTTCTTAT TTATTATAAC AATGCTTATC TTAAAGTTA TTTGTCTGA | 55200 |
| TATTAGTATA CCTACTCCAG ACATCTTTG AGTACTATTT GTATGTGATG AATTGTTCC | 55260 |
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| TGCTGCTCAA ATTTGCTGTT AAAGCCCTCT AGTAATTTC TTTTCTTACA GATGAGATAT | 55680 |
| CATGCTGTCG TTCAGGCTGG AGTGACCATG ATCCTCTTAC TGGGATCACA GATCACGCAT | 55740 |
| GCTCCAGTCT GAGCAGCAGC ATGAGCTCCA GCTTGCTCCA GCCTGAACAG CAGCAATACA | 55800 |
| TTCTTTCACA CACAAAAGGG TTATTGGATC TCACACAAGA AGGAATTGG GGCTAGTCCA | 55860 |
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| AGGAAAGAGG TGGACAATTCC CAGAACTAA GGTTCTTCC CCGTTTTAGA CCATATAAGG | 56700 |
| TAACGTCCAG ATGTTGTCAT GGTATTGTAA AACTGTCGTG GCACTGGTGG GAGTGTCTTG | 56760 |
| TAGCATGCTA ATGCAGTATA ATTAGTGTAT ATGAGCAGTG AGGATGACAA GAGGTCACTT | 56820 |
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| GGAACCTTA ATCCTAACCGA TTGCAGTGGG ATAAAGATCC GTCTTCTATA ACTTCTTCAG | 57120 |
| ACTAAATAGG GGCAATGATA TTCCTGTCTA ATTATTAGGG TCTCTTGTGT CCAGGGTAGA | 57180 |
| GAGGAGCTCA GTCACAAAGT GTCAGTATGG TGAGACATTC ATAACCTCTGA GGCTTCCCAA | 57240 |
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| AAAAAAAAGGAGTCCTTT | TAAGTTCTT | ATTACTCAAC | TTTAGCCATC | CCACACGGCC | 57840 | |
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| ATATCAATCA | GAAAGTACTC | ATTCCCTAAG | CCAGGATTGA | ACCTTGGCCG | CCATTATAAA | 58020 |
| ATGACAAATC | CTTAGCTGCT | GAGCTACAAC | ACTGGTTAGT | TTCCATTGCC | CTTCCCAGAA | 58080 |
| GGGGTCCAGA | GCAGCCAATT | TTGAGCTTGC | AATGGCTTGA | GATAATTTTT | AGAGTTAACT | 58140 |
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| ACGTGGTTAC | AAGGTGAAGC | TCCAAAGGAC | ATAAAACAAG | ATGAGAAGGA | AACTTCATCC | 58260 |
| AGTTTTTATT | TTTTTTTTT | TCCAGGGACC | TGTAATAAAC | TTTGCAACGG | ACCAGTTTAC | 58320 |
| TGGGCTGGCT | TGAACAGCAG | GCTTATGGAG | TCCTGAGCCC | ATGTTCTATC | CTACCATATT | 58380 |
| CCTCTTTATG | ACAGAGTAAT | ACAGAAAGAC | AAATTGATAT | CACAAAGTAT | ACCAGATTCA | 58440 |
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| GACTGGTAAG | AAATCTTAC | CCTTTGCTG | GCATGCCAGG | TTTCTGGGTT | CTCTTCACT | 58620 |
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| AGATGCTGCC | CAATGGCAC | ATAAGTAAC | CAAATTAACG | TTTCCATTTC | CAGCCAGAGC | 58800 |
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| AGTTCAACA | TATGGTCTCT | GGGCAAGATG | GTTGTCTCAA | GTAACAGAAA | AGACAGAAAA | 58980 |
| GAGAAAAGAG | AGAAAGGGAG | AAAAGCATTG | CCTGTGGTGA | GATGGGGAAG | GTGAGGAGTT | 59040 |
| CACAGAGGCC | AGAGAAAGAC | CCACCCATTG | CAGCAACACT | GAATCAAAG | TTCAGCGGC | 59100 |
| TGCTTGTCA | AGCAAAGGGA | TCTTTCCAA | CAGTCCTATC | AGCTGTCAAG | CTTCCCTTT | 59160 |
| TGGAGAGAAG | AAAAGTCCC | AATGTCCCGT | GATCCTGTAC | ATGCCTAATC | CTGTCACCCA | 59220 |
| TAGCTGTCA | CAAAGAGCAC | AGGGAAGATT | AATACAAACA | GAATAGCAGT | TAACATCCCC | 59280 |
| TAATGCTAAA | TCCGTTTTA | ACCAAGAGAG | ACTTTACTGA | GAGGGGCCTC | TAACCCCTTA | 59340 |
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| TTGCCCTTTA | TTAAGAGCGG | ACTGAAACCC | TCTCTGTCTT | AGGAGAGACC | CTATCTCCCC | 59460 |
| TAAGTTGCAC | CTCTAACCCA | ATCCTATCCT | TTACCCGGGG | ACTCCACCAC | TTACCCAAAG | 59520 |
| TCAGCCAGTT | GGTGTGTAG | TCTGTTCCCT | TTGGCTTCAG | AGTCTCCTCA | GTATTGTCCC | 59580 |
| TTCGTGGTCA | CAGAAAGATT | TACCAGAAA- | GGGTCTTGAT | CCAGACCCCA | AGAGAGGGTT | 59640 |

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| CTTGGATCTC ACACAAGAAA GAATTTAGGG CAAGTCCATA CAGTAAAGTG AAAGCAGGTT | 59700 |
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| GCACACACCA TCATGCCTGG CTAATTTTT TGTATTTTT TTTTAGAGA TGGGGTCTCA | 60360 |
| CTGTGTTGCC CAGGCTGGTC TTGAGCTCCT AGGCTAAAGC AATCCTCCTG TGTCACTCTC | 60420 |
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| CTCACTGCTA TGCTCATACC AGCGCCACGA CAGTTACGA ATGCCATGGC AACGTCAGGA | 61080 |
| AGTTACTTTA TATGGTCTAA AAAATGGAGG CATGAATTAT CCACCCCTTG TTTAGCACAT | 61140 |
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| CCCCACTCAC TTCCAGAGCA GGCTTCAGTG AAGCAGTCAT CTGTGTCATG ACAAGAGCCA | 61680 |
| AACTCTGTAA AACATTTGAA GAGATTATT CTGAGCCAA TTTGAGTGAC CATGGCCCAT | 61740 |
| GACACAGCCC TCAGGAGGTC CTGAGAACAA GCGCTCAAGG TGGTTGGGAT GCACCTTGGC | 61800 |
| TTTATACATT TTAGGGAGGC ATGGGACATC AATCAAATAC GTTTAAGAAA TGTACACTGG | 61860 |
| TTTGGTCCAG AGAGGCAGGA CAACTGGAAG CAGCGGAGGA GTGGGGTGGA GGTGATGACA | 61920 |
| ATTGGTTGAG TTTGTATAAA GATTTGGGAT TAATAGAAAG GAGCACTAGG TTGTGATAAC | 61980 |
| AGGTTGTGAA GACCAAAGTT GTACTATGGG ATGAAGTTTT TAGCTAGCAG GCTTCAGAGA | 62040 |
| GAATAGGTTG TAAAATGTTCA TTATCAGACT TAAAAGCTGT GTTGATGTTA ATGCCAGAGA | 62100 |
| GGAATAATGA GGCATGTTCA ACCCCCACCT CCCTTAATGG CCTGAGCCAG TCTTCAGGT | 62160 |
| TACATTTAA GAAGCCTGAC TGAAGAGAAA GTCTATTCAAG ATGGTTGGG GCTTTAGAAT | 62220 |
| TTTATTTTG TTTTATACCT TTGCCCTTGG AAGTTTTGCT GAAAAATGAA CACAAAAAAA | 62280 |
| GGCAGATTCA TAAGATAAAA GGCTTTACAA TTTAATTACT CTGTGGTTCT CCTCATGCAC | 62340 |
| ATAGTACCAA TATCCCAGTG GAATTAGAA GCTTATATGC CACCTTGAAG TTGAAGAAAT | 62400 |
| AACAGGGGCT TGATCCTTGC AAAATAGGTT ATGGGAAACA GAAGAAGAGG AATTCTGTTG | 62460 |
| AGGGGCAATA TGTAACTACC AGGAGAGACT AATTGGATCA AAGAACAGAT AAATTTGTAA | 62520 |
| ATAGTTCTCC TTGGAATTAA AATGATGCTT AGAGACTGAT TATCTTATAA AAGGGTCTGT | 62580 |
| TCAGGTGTGG TTACATTCTT GGTCTTCCT ATAATGCACA ATGAGATAAC AGAGAGGGAG | 62640 |
| AAAAGAACAA TTGTTCTCGC TGGTGGGCC ATCCTATTAA TATGTACCTA GGGAAAAGTC | 62700 |
| TCTTTAGTGT CTGTTGATCT CTAAGAGTTT TTCATTCAAA ATACTCATTA TATCAGGAAG | 62760 |
| CCACATTTG GGGTGAATT CACTACTCCC TTTTAGAGAT ACGGGTACAA ACTGTTGTA | 62820 |
| AAGAATGCTA AGACTTGCC GGGTGCAGTG ACTCACGCCT GTAATCCCAG CACTATGGAG | 62880 |
| GGGCCAAGGT GGGCAGATCA CTTGAGGTCA GGAGTTCAAG ACCTGCCTGG TTAACATGGC | 62940 |
| AAAACCCCAT CTCTATTAAA AAAAACAAAA ATTAGCCAGG CGTGGTGGTG GGCATCTGTA | 63000 |
| ATCCCAGCTA CTTGGGAGGC TGAAGGCAGG GAGAATTGCT TGAGCCTGGG AGGCAGCTGT | 63060 |
| TGCAGTGAGC CGAGATCACG CCACTGAAC TCAAGCCTGGG CAACACAGCG AGACTGTCTC | 63120 |
| AAAAAAAAAAA AAAAATGCT AAGACTTACT TTGGGACATC CTTTGTCAAG GTCCATGATT | 63180 |
| CTGATTAGCT CAAGGCAGGT ATTTTTTTT TTTAATAGAG ACAGCATCTT GCTATGTTGG | 63240 |
| CCAGGCTCGT CTCGAACCTCC TGGCCTCCAG TGACTCCCC CACCTCAGCC TCCCCAAGTG | 63300 |
| CTGTGATTAC AGGTGTGAGC CACCACACCG GTCTGGTTTT TTTTGGTGGT TGTGTTTTA | 63360 |

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| ATCCTATAAT CCTGTGTCCT TTCTTCCTAC CTCTGAGTAG TGCTTACTCT CTCCCCTTA | 63420 |
| GTCATTGAA AAGTTTATCA GAAAGTGGGT GCAGTTTCAG GCTGGGTACC GTGGCTCATG | 63480 |
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| TTACAGTGAG CTGTGATCGT ACCATTGTAC TTCAGCCAGG GTGACAGTGC AAGAGCCTGT | 63600 |
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| CTTGTGGGG CTCAGAAATT GATACCTAA TATATGGCCC TTGGTCATAT TGAAGTGAAG | 63720 |
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| TTCAAGTTAA TCTCTGTTCC CTGATCTACT TACTCTCCCT AGTAATGAAA GGAGTTGGCC | 63960 |
| AGCTTGCTTT AGGCAGACAG TAAGGGAATG GTACCCAGAG AACCTCTGAC CTGCCCAACA | 64020 |
| AGTGCTTACA CGGGATGTTT TGTGCAGATA AGGAACTTG CACAGGGGGC TTGCCTAAC | 64080 |
| ATGCCCTGCAG TGGATGATTC CTTTCCTTAA CACATGCACA GTTCAGGAAA TTAATCAATA | 64140 |
| TGGAGTAGCT CAGTCTAAAG GCCTGCATGC ACTGGTAGGA CAGGGTGGAG TTGTCAGGAA | 64200 |
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| ATGGCTGCAT GCCTAATTCT TCCTGGCTGT GAGACAAAAA CCCGGACCTA GCTGAGCGAA | 64380 |
| GGAGCAAAA TCCGCAACAG TAATCCCATC AACAGAGTTT CTCTTCTTCC CCTCCCATAA | 64440 |
| TCTGTTTGC CAGGATAATA TATAAGCTTT TAAGCCCTCT TGGGAAGTGG ATAATCATTC | 64500 |
| TATGGTTCTC CCTGTGTACA TGTTAATAAA TTTGTGAGTT GATTTTCAG CAAAGTTCC | 64560 |
| CCAGAAGCCA AAGGGGAAAT TTCCCTTGGC CCCTCCACTC TCTTTCCCA GCTCTTCTTT | 64620 |
| TACTTTCGTT TTTATTCCT CAGCCCAGTA GGTACAGGCC TTCTTTTAT TTCTTCTCTG | 64680 |
| TCCAAACCAT CAGTATATCC TACAGGTGGG AGAGAAGCAG CTCTCTGGGA AACAGTAAG | 64740 |
| CACCATGAGT TCTGATACTT TCTAGTACCA TTTGACATAT TAACATCCCC GCCACCCCTA | 64800 |
| ATATGTATGG ACACGCACAC ACATACCACA TCACATGCAT CACACTAACAA CAAACTATGT | 64860 |
| ATCACATACC ACACACAGCA CACACAGTAC CACATACCCC ACACAACACC CACACCACAC | 64920 |
| TACGTGCATC ATGCACATAT GTGCACACAC CTCTTGTGAT GTGTGTTAG TGCAATTCTAG | 64980 |
| AAAGTTACTC TTTGATTAA TGCACATCAC TATGCTTAGA AATATTCTAG TTACTGGGAT | 65040 |
| TCATCAGTGA ACAATATTGA AAAAATCCA TCCCTTGCA TTCTCATGAG GGAAGCAAAC | 65100 |
| ACTAAACAAA ATAAATTAGT AAAATATTCA GTGATAAGTG CCATGGAAC AAAATAGATT | 65160 |
| TGAAAATGTT TGGGAGGGAG AGAGGGGTAC ACTTGCTAAC AAGTGGTCAG GATAGGGTTA | 65220 |

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| GTTGAGAGGC AAAATCTGAA GGAGTTGAGG AAAGGCATTC TAGGAATAGC TGAGTGCTGA | 65280 |
| CTCTTGCCCA CAGTGGGAAC ACACAGTACA GAGCTTCTGA AGGAGACTCT AGTGACCTAC | 65340 |
| TTCCCATTGT GAGTCTTGG ACTCCTATAT CCCATAATCA CAGGATCAAG CCTAACTTTA | 65400 |
| CATATTAGAG ATAATGCATT CCTCCTTGGG GATAGTTCAAG GTTGATTCT CCCTAGGCCT | 65460 |
| GCCTTTGTCA ACATATTCCCT GAAGTCTCAT CTGCACCCCA TCTCTGCTTC TAATATTGGC | 65520 |
| CACTCTGTGC ATGAACCAGC CCCTCCTTCC TGCAATGGGA AACAGGTGTG AGATGGGACA | 65580 |
| GCTGTCACAA TCCGTTTGC TTTGTCTTG CTGTTATTAT TG GTAATGGT AGTTGTTTC | 65640 |
| CTTTTAGCA TTCACTAGCT TCCTTTCCCT GATCCTTGA TAGTGT TACC AGAAAGGGGG | 65700 |
| TCCCAACCCA GACCCTAACAGA GAAGTTCTTA GATCTCGTGT GAGAAAGAAT TTGGGGCAAG | 65760 |
| TCTACACAGT AAAGTGAAAG CAAGAAAGTA AAGGAATAAA AGAACGGCTA CTCTACAGGC | 65820 |
| AGAGCATCAG CTTCTGGACT AAGGATACTG ATATGGTTTG GCTGTGTCCC CACCTAACTC | 65880 |
| TCATCTTAAA TTCCACATA TTGTGGGAGG GACCTGGTGG GAGGTAATTG AATCATGGGG | 65940 |
| GCAGGTCTT CCCTGAGTAA TTTATACTGC TGTTCTCATG ATAGTCAATA AGTTTCATGA | 66000 |
| GACCTGATGG TTTTATAGAA AGGAATTTCCT CGCACAAGC TCTTGCTCG CTGCCATCCA | 66060 |
| TGTAAGACCT GACTTGCTCC TCCTGCCTT CTGCTGTGGT TGTGAGGTCT CCCCCAGACAC | 66120 |
| GTGGGACTGT AAGAGCATGA AACATTTTT CCTGGTATAA ATTACTCAGT CTCAGGTATG | 66180 |
| TCTGGATCAG CAGTGTGAAA ATGGACTAAT ACAGATACTT ACAGTTATTT CTTGATTATG | 66240 |
| TACTAAACAA GGAGTGGATT ATTCATATGT TTTCTGGAA AGATGTGGC AATTCCCAGA | 66300 |
| ACCAAGCGTT CCTCCCCTTT TTAGACTATA TAGGGTAGCT TCCTGACATC GCCATGGTAT | 66360 |
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| TGTATAATGA GCAATGAGAA TGACTAGAGG CCACTCTTGT TGCCATCTTGA ATTTGGTGG | 66480 |
| GTTTGGTCA GCTTCTTAC TGCAACCTGT TTTATCAGCA AGATCTTTAT GACCTGTGTC | 66540 |
| TTGTGCCAAC TGCCTATTTC ATCCTGTGAC TTACAATGCC TAACTCCTG GGAATGCAGC | 66600 |
| CCAGTAGGTC TCAGCCTTAT TTTACCTAGC CCCCATTCAA AATGGAGTCA TTCTGGTTG | 66660 |
| AACACCTCTG ACAATAGGAC AGATCTGGAA TGAGCCATGC CTGGGTACAG AGTCACATCC | 66720 |
| ACAACAATGA AAGTTGTAGA TATCTGCAAG GACTCATCGT GGGACCAAGG ATTCAAGGGC | 66780 |
| TCATTCTTTC TCCTCTCTCT GTGTGCTGGT TGCCTCAGGA GTAGAATGTC CCATGCTATG | 66840 |
| CATGGGGTCT GCAACCATCA TGCCAGGGCA TGATGAATCG TAGGTGGCAA AACAAACAGAA | 66900 |
| GGCTCTGTGA GCACCCAGGA GGGTGCAGTG CTGAAGAGTC TTCTGCTTGG TATAGGAAGA | 66960 |
| AAGGAACGTG TTTCCAATC TTGCCTTAT TTTGAGTAGT TGGACCAGAG GGATTGCAGC | 67020 |
| TGGGCCAAAC TCCATGTTCC ATTGGCTATC AGGGTCAGCA GGCAGGCCAG GGGCCAGAC | 67080 |

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| AGGCCAGTGG | CTCCCAGAAT | TCAAGTTAA | TTTCTCCTCC | CACCTGTGTC | CTGAGCTCCC | 67140 |
| CTTACTGGTT | CCCTTGGACC | ACTGCATCTA | CTTAAGCCAG | CATTTATTAT | GTTGTTATCA | 67200 |
| TAAATGCCTC | TTACACCTGA | GACTTATAAA | TGTGACAAGC | TCTTATTGTG | AGATAGTAAT | 67260 |
| CCATCTTTT | TCCCCATGAA | ATAATAATTC | TAACGGGTGG | TGATAGTACT | TTTCCTTCA | 67320 |
| TTTTGAAGTG | GAGAAGCTGG | AGCTAAGTCA | TTAAGGACTT | GACCCTGGAC | CCCACAGCCT | 67380 |
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| GGGGCACTCA | CTGCTGGGCC | ACTAGTGACT | CCCATTTCCT | ATCCTGGCTG | ACCCTCGCTA | 67500 |
| TTGAAGAAGA | TCTGAGTCCT | GCAGAAGGAC | AGCAAGGAGA | AAAACAAGAC | ACAGAACGGG | 67560 |
| ACAGAGAAGA | ATAGAAAGCT | GACTCAGATG | AATTTGTGA | TGCCAATGAG | TCCTACTGCT | 67620 |
| GTTACCACCC | CTTTTCCAC | CACACCCTTC | AGAGCAGTTA | TAGAACACACA | AGCAACCCAT | 67680 |
| AAATAGCAA | AGAAGTAACA | TCAGCTAGGA | AGGCTTAAGG | ACTCCAAGG | GAGTTGGTGG | 67740 |
| CAAAAGTAGA | AAGATCTCAA | ATCAGAGTCT | GTGAACTGAA | CCTCTGCAGG | CTTCCTGTTT | 67800 |
| TTAGATACTC | TGTGTTGGGG | TCACATGATA | GTTTACAGGG | TTATTAAATTG | GTTCTTCTTT | 67860 |
| TTTATTGCTG | TAAAAGAAGG | ATATTTCTT | CCTACGTTTC | CCCCCTCCTT | ACGGGAGAGG | 67920 |
| CGGAGTCAA | ATGATATGAA | CAACGTCACT | AGTTTCTCC | TAAATCTTAT | GAGCCCCGCC | 67980 |
| TCCCACAGTA | GTTTCACTTC | TCAGTTAAT | CCGGTCTGAG | TTAACTTCCT | GACCCAGGAA | 68040 |
| GTGGCAGCAA | CAGAGGGAC | TAGCAGCGAA | TATGTAAGTG | TCTGAGCAGT | GAAGGTTACG | 68100 |
| GAAAAGGTCC | AGGCTAAGGT | TTTCTCAGTG | GATATGTGAG | TGTGTACTGA | TGGCAAGTGG | 68160 |
| GGTGGGGAAAT | ATATTCGTG | ACAGCAGGGC | CCCTCCAAC | CTGAAAATGG | TCAGGACTTT | 68220 |
| CTTTGTTTA | CAGCTCTCAC | CTCTTCCCTG | CTCTTCTTT | CACCAGACTT | TACACCAAAT | 68280 |
| CTCAGAAGAT | TCAGAACTTA | GATGAGTGGG | GCCCAGGACA | GGAACCCCTGG | AGCCTTGGAA | 68340 |
| GGAGGGGAGC | CCCATCTCCC | CAGAAGAGCA | GTGACCCAG | CAGAGAGGGG | CCTGGTGTAT | 68400 |
| CACTGGAGGA | AATAGCCTGC | CAAGGAATAC | ACGTCTTCAG | AAGAAATTCT | GTGTGGCTTC | 68460 |
| AAGAGACTGA | TCAAATTGTG | AGAGGAAAAC | AGCCTACCCG | GTAATTGTAG | TTAAATTACT | 68520 |
| GTTCCTTATT | CTAGGCACTC | TTCAAACCTTC | CTCCTGACTC | TGCCCCTGTC | CTAGAGGAGC | 68580 |
| TCCCAGGAGT | AGGGGTGTGG | GGGCGGGCGG | GGGGGAGGGG | TCGGGGGTAC | AGGGAGAGCC | 68640 |
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| CCTGGCCTCC | CCCATCTTCT | TTCTGCCTTC | CCTACCTCCT | TGGGTCTGCA | AACTCTTTAT | 68760 |
| GTTGCAATCA | CTCTGAACAT | GTCTCTTGAG | ATAGGTCTG | TCCTGGAGAA | GAGATAGTAA | 68820 |
| AAGTAAACTC | CCCAGTTCTG | CAGGAGCTCT | GATCCCATAG | AAATAACTGC | TCCTCAGGAG | 68880 |
| CAAACCCCTCT | GCTCTGCAGC | CTTCTTTCCA | ATTCTTATTC | CCTCAGTTA | GGGAGAGGGC | 68940 |

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| TCCTGGTTGG GTCTCTAGCA AGACGTTATT AGCCAGGGAA GTCCCACCTTA GGCACCCCTC | 69060 |
| TCTGCAGAACAG AGGTATTACAC TATTCTCCTT TCTCTTTCTT TTGCCTATTA TACCTCTGCT | 69120 |
| CCTGAAAGCA AAAACAACAA CAACAAAAAC ACAAACAAAA AACAAACCGAC CTTATTAACC | 69180 |
| AGTGTGGTT GTTGGTCTTT GTGGGGATG GGGGGGGTCG AGGTGGAGTC AAATTTTATT | 69240 |
| GTCATGATGG TGTAGGAGCC AAGGGAACAC TTCCCCTTG CCTTCTGAAG TTCACTGAAA | 69300 |
| AATCGACTCA CAAAAGGCAG GCTAATTGGA GAAAAGGCAT ACAAAATTAT TAACAAGTAC | 69360 |
| ATGGGCTAGA ATCACAGAGT GATTACCCCC TCTGCCAATG GGGGTAGATA CTTATATAGC | 69420 |
| CTTATTTATA AATACTTATG TATAAATACA TAAATATAAA TATGTATGCA TATGTATGTA | 69480 |
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| GTGAAAGTGT CTGATTAGGT CTGGTAACAT TCTTAGTCCT CTTTCTTCA GTACAAAATG | 69780 |
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| TACCAATTAT TCTTTTTTTT TTTTTAAGA CAGATTCTCG CTCTTCACC CAGGCTGGAG | 70080 |
| TGCAGTGGTG TAATCTGGGC TCACTGCAAC CTCCCCCTCC GGAGCTCAAG TCATTCTCCT | 70140 |
| TCCTCAGCCT CCTGAGCAGC TGGGATTACA GGTGTGCACC ACCACATCTA GCTAACTTTT | 70200 |
| TGTATTTTA GTAGAGATGA GGTTTGCCA TGTTGGTCAG GCTGGTCTCA AACTCCTGAC | 70260 |
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| TGCTGGCCTG GTAACAATT TAACAGAAGT TAACTAGAAT AGGAAAGAGT TTCACACTCC | 70380 |
| CTGAGTTCTC TCTTTTACAG CTTTGTGAG GAAGCCTGCA TTGCTTCTCC CAGCACTTGG | 70440 |
| TCCAAGGTAA CTTTCTGTGA TAACAGAATG TTGTATATTG AGGCTGTTAT GTAGCCACTA | 70500 |
| GTCACATGCA ACTATTAAGC AATCAAATG TGGCAACTGG AACAGAAAAA CTGAATTTTT | 70560 |
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| AGCTATACAG CTAGATGTT GTGTATCCTC TAAATTCCAA TGCAATTCTT CTTTCTGGAG | 70680 |
| AGAAGACTTT AGCTGGACAT GGTGGCACAT ACCTGTAGTC CCAGCCACTC TGCCAGGGTG | 70740 |
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| GGCTGGGCAC | GGTGGCTCAT | GCCTGTAATC | CTGGCACTTT | GGGAGGCTGA | GGCGGGTGGA | 70920 |
| TCACAAGGTC | AAGAGATCGA | GCCAACCAAC | ATGGTGAAAC | CCCATCTCTA | CTAAAAATAC | 70980 |
| AAAAATTAGC | TGGCGTAGT | GGTGCACACC | TGTAGACCCA | GCTACTACTC | GGGAGGCTGA | 71040 |
| GGCAGGAGAA | TCGCTTGAAC | CCGGGAGGCG | GAGGTGCAGT | GAGCCGAGAT | AGCGTCACTG | 71100 |
| CACTCCAGCC | TGGGTGACAG | AGTGAGACTC | CGTCTCATTAA | AAAAAAAAAA | AAAAAGTTAG | 71160 |
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| CAAATTTAT | CAGGACAAGT | GAGGCAGGAG | TATAGGTCTT | CCAGTTAAGA | CCCCATGTTT | 71280 |
| TAAAAGCATT | TTGTTCCCTGA | CTGGCTGCCT | CATCTATTAC | CTACATATTC | CCGAGATTTG | 71340 |
| TTAACACAAA | GAAACAATGT | TATAGCCAGT | CCAAAAGCTT | ATGCTATTTT | AATGTTAAAT | 71400 |
| CCTTGGCAAA | CAACTTTAAA | ACTGCTTAA | ACTGCTTTTT | TCCTCTAACAA | CACTTGTACT | 71460 |
| GCTTGCTAAT | GAGGCACTTG | AACTCTGCAC | TTGGTTGCAG | TTTCTCAAAG | TGCCCAAAC | 71520 |
| ACACCTCACT | CAATTCTTC | CTTTTAGTTC | CTCTTTCTT | CAATACAAAA | TGAGATAATA | 71580 |
| GGGGTTGGAA | GGAAAACTTT | CAAGACCTAT | GGAAGTCAGT | TGCAGCCAGC | TCATCACATA | 71640 |
| GAGGTGCAGG | TGAGGTGTAT | TTTCATCAGG | GTGGAAAATT | CTGGCTGCTT | CATCTCCATC | 71700 |
| TCTAGAGCCA | ATATTGGAGC | TTTCAATAA | AAGCTATGGC | CTCAACCACC | AGCACCAAGA | 71760 |
| AGATGATGGA | GGAAGCCACC | TGCTCCATCT | GCCTGAGCCT | GATGACGAAC | CCAGTAAGCA | 71820 |
| TCAACTGTGG | ACACAGCTAC | TGCCACTTGT | GTATAACAGA | CTTCTTTAAA | AACCCAAGCC | 71880 |
| AAAAGCAACT | GAGGCAGGAG | ACATTCTGCT | GTCCCCAGTG | TCGGGCTCCA | TTTCATATGG | 71940 |
| ATAGCCTCCG | ACCCAACAAG | CAGCTGGAA | GCCTCATTGA | AGCCCTCAAA | GAGACGGATC | 72000 |
| AAGAAATGTC | ATGTGAGGAA | CACGGAGAGC | AGTTCCACCT | GTTCTCGCAA | GACGAGGGGC | 72060 |
| AGCTCATCTG | CTGGCGCTGT | GAGCGGGCAC | CACAGCACAA | AGGGCACACC | ACAGCTTTG | 72120 |
| TTGAAGACGT | ATGCCAGGGC | TACAAGGTGA | GTGTGTGGC | CCGGGAGCTT | TGGTAAGTAC | 72180 |
| CAAGTCTTAT | CCTGCTCCCC | AGGAGCTGAG | ATGATTAAAC | TTGAAACCTA | ACATTATGAC | 72240 |
| TTGGAAATAC | AGCTTCATC | ATGTCATTCT | TCTGAAAAAT | AGTTTATGAT | GATTCTTGC | 72300 |
| TCAATTATCT | AGACTGTCCA | TCCTGACCTT | CAATGGATG | GTTGGACTCT | TATCTCTATC | 72360 |
| CATTGTGTT | ATGATGAATT | TCTTTTGCT | TTAGAACAGG | TTGTTCTCAA | ACCAAACACC | 72420 |
| CGCATTTTT | CTTGTTCAC | ACCATGAATA | TCATTTGAAA | AACCACAATA | TGAAAGCCA | 72480 |
| TGCAGTAGGG | CCTGAAAACA | GGGAAGAAAG | ACCCATCACC | TTTTAGGTAT | CTACAGTCTA | 72540 |
| GTAAAGAAAA | CAAACCATCA | AAAATGTCTG | CCTGGAGGTC | CCTGGTTTG | GTGGTGGGGA | 72600 |
| GGGACATTAA | GGGTAGAGAG | TGGTTCATCT | TAGAAGTAAC | TCCTGAAGGA | CACGTAAAAA | 72660 |

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| TTGAACACCT ATTGGGGAT TTTCATTGG GGAATGAAGG GTCAGTGACA TTGAAAATAT | 72720 |
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| CTCTGTATCC CAGGTTGGAG TACAATGGTG CAATCTCGGC TCACTGCAGC CTCAACCTTC | 72840 |
| TGGGGCTCAA GCAATCCTCC CACCTCAGCC TCCCAAGTAG CTAGGACTAC AGGGATGCC | 72900 |
| CACCATAACCT GGATAATT TTATTTTT GTAGAGACAT GGTCTGCCTT TCTTGCTTAT | 72960 |
| ACTGGCCTCA AACCCCTGGT CTCCCTCCA TCTCAGCCTC CCAAAATGCT GGGATTAGAG | 73020 |
| GCATGAACCA CTGTGCCAG CTACTGTGGC ATGTCTATGA TAAAAGGAAT ATCAAGGAGT | 73080 |
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| AAGAAGAGTC AAAGATTGG AAATGCTTG TTGTGGAAGG TGAAGCAGAG GGAGAGGTTT | 73200 |
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| TTGAGGAAAA TGTTGTCTCC AGTGTCAAGC TCCTTATTCT GTCCTCCATG AGGCAGAGGT | 73380 |
| GGTCTTGTAT GAAGGCTCTA AGTCCTCTA AGGACATGTC AATCATGACC ACCACTCAGC | 73440 |
| TCATGGCAGC TCTTCCTTAA ACTCCATGGA GCAGCTAATA ACTGCGATGA TCATATTCCC | 73500 |
| ATTTGAATTA CTTTCCACC AAGTAGTAAG AAAAGGAACC AGCTTATGTT GAAATTGAGT | 73560 |
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| TCTCCATCTG TAAATGGGGA TAATAGCACT GTCCTCCCTC CCTAAACAC ATACACAGGA | 73680 |
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| GTTTGAGA ATAAGCTAAA AGCTTGACAT GAATACTAAA TCATTTAAA TTGGATTCAT | 73980 |
| GATACCATTG TTCAAAAGAT ACCAGAATTC CCCTCTCCA TGAACTGTTT CTAATAACCA | 74040 |
| GCTGGCATCC TGATTTTCC TGACTCATAA GACACAAAT TTCATGTTGT TGCCAAACAC | 74100 |
| TGGTATTGGT TTTGCTTGGT TCAGCATGTT GTTTACAAA ATCTTTAGA TGATGATTAC | 74160 |
| CTTGTCTAT ATCCAACCTT TTCTGGCAG GACTCTAGTG GTGGACATAG CTCAGGCTCT | 74220 |
| GGGTCACTG AGTGAAGATTGC AATTGTTGCT CCACCACCTG GCAGTCATAG CCCTTGGC | 74280 |
| AAGTTATTAA ACCCCTTCT TAGTCTCATT TTCTACAGCA CAGAAATGAA GTTAAAATC | 74340 |
| CTACCAACTA TTCAAGGGAT CAGTATGTTG CTGCACATAT AGCCTTGTG | 74400 |
| ATGCTCTCTA GCAAAACAA ATGAGGACTC TATAAATATT CACTATTATT CAAATATATC | 74460 |
| TTAGAAGATT GGGATTCCCC CTAGGTCCCT AATGAAGAGT CAAATTGAAT AGGTTCACT | 74520 |

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| TATCAAATTT | TTCCTTCAGG | AAAAGCTCCA | GAAAGCTGTG | ACAAAACGTGA | AGCAACTTGA | 74580 |
| AGACAGATGT | ACGGAGCAGA | AGCTGTCCAC | AGCAATGCGA | ATAACTAAAT | GGAAAGTAAG | 74640 |
| AATCTGACTT | CATTGATCTC | AAGCTATTTT | CCATTCTAGA | GCTTAGGCAT | AGGGGATGAT | 74700 |
| TGAGGAAAAG | CACAATGAGG | ATTTATTCTC | ACTAAACCAG | ATTGAAAAAA | TGAAACCCAA | 74760 |
| GGAAGAAACC | ATTATTTGTA | CTTATGCC | TGGTTCCAGG | TTTACATCCA | TGAGTATTAA | 74820 |
| GCACCAATCT | TTCCATCTT | AAACTGTAGT | TGGCTGGAT | TCCTGATACT | TCAGTCAGAA | 74880 |
| GAAGCAGAAT | TAGTATGACT | ATTTACCTAG | AAAAAGCATC | GAGTGGGTCT | CAAACTTAA | 74940 |
| ATACGTCAAA | ATAAACCTGG | TTTGCAGGCC | TCAACTCATT | ACCCTGGCAC | TTTACCCACA | 75000 |
| GTGGAGCATC | TGGCTCTCAA | CTTACAGGT | ACAGAAACCA | AGCTTGTGA | ACACTTAGAA | 75060 |
| AACAGGATCA | CTCCAGATTG | AAATTACATAC | TACTCTAGCT | CATGAAGCTG | ATGAAAGAAA | 75120 |
| TATACTTTAT | TTATTTATTT | ATTTTAAAT | TATTACTATT | TTTGAGATG | GAGTCTTGCT | 75180 |
| GGAGTGTAGT | GGTGCATCT | CAGCTCACTG | CAATGTCCAC | CTCCCGGGTT | CAAGCAATT | 75240 |
| CCCTGCCTCA | GCCTCTTGAG | TAGCTGGAT | TACAGGCATG | TGCTACCATG | CCTGGCTAAT | 75300 |
| TTTTTGTATT | TTAGTAGAGA | CGGGGTTCA | CCATGTTGGC | CAGGATGGTC | TTGATCTCCT | 75360 |
| GACCTCGTGA | TTCACCCACC | TCAGCCTCCC | AAAGTGTGG | GATTACAGGC | GTGAGCCACT | 75420 |
| GCACCCGGCC | TATACTTGAT | TTATAAGTAC | ATCACAAGTA | ATGCAACAAAC | CTACACACTT | 75480 |
| GCAACTACAA | ACTTCAGAT | TATTCCTGT | GCTGACTAAC | CTCCACATTA | TCAGAGCCAC | 75540 |
| ATTCTTTAT | GGAAATATTT | AGGTTGTGC | AAAAGTAATT | GCGGTCTTG | CCATTAAAGT | 75600 |
| AAAGGCAAAA | ACCACAATTA | CTTTGCACC | AATCTTATA | TTTATATAAT | TCACTAGCTT | 75660 |
| GCAGTAAAAT | CCCACAAGCT | GATTACCAAT | TTTCTCTCTT | TCAGGAGTCC | TCTCTAACCT | 75720 |
| CTACCCCTGAT | CTTTGTTGT | GGATGTTGCT | CTTGAGCTCC | TGAGTACACT | CTTACTTCCC | 75780 |
| CCATTCTAG | GATCTGGGC | AATGGGAAG | ACCTGATTG | TAACTAACAT | ATATGAAAAC | 75840 |
| CCGTCTATAC | AAGAGTTAAA | GCTGCACCTG | TCTCCTACAC | AAAAATTCCA | CCTCATCCTA | 75900 |
| AGTCAAAGAC | CCTTCTTCTA | TATCATAGTC | ATCAAAACAC | TGTATGAATT | TATTTTTATT | 75960 |
| TTTTAATT | TATTTTTTA | AGATAAGTAG | AGAGTTTATT | TGGGCCAAGT | TTGAAGACTG | 76020 |
| CAATCCAAGA | ACATAGATT | AAATTGCC | GAATACACAC | TCCCAC | TGAATTTAGA | 76080 |
| CAGCACTAAT | GGAAATTGCA | ACTTTACATC | TCCTCAGATG | AGAGTTTCAC | TTGATTTCTG | 76140 |
| TCAGTCTTAC | ACATAGGAAT | GCTTAAGATG | ACCTAGGGT | AGTAGAACAG | TATTTCTCAG | 76200 |
| TTAACCAATAA | TAAATGCCTG | TCACACTCAA | AGCTCCCCCT | GCCAAGAATT | ATGGACCCCT | 76260 |
| TTACCAAGCCT | GGTTGTCTTA | AAATCCAGTC | TGGGTGATGT | TCATTATAAG | CTTTTACTTC | 76320 |
| AAGAAAATCG | CTCCAAC | TAAATCTAAC | TTCTTAAATC | ATAAGTAAA | ACCTCTTTT | 76380 |

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| ATCCTTGTAA CTGATAAAGT GTTTGAAC TT GGCCCTAGTT TCACAATTAA ATTATCTAGC | 76440 |
| ACTCCTAACCC CAGCTTCCTC CTGTGTCTTG GCTGAAGAAC AAGAAAATTA ATTGGGTGAC | 76500 |
| TATAAGGAAT CTGAGGCAAC CTCTTCCACA TCTGAGTGCC TGCCTCCAC ACATGACTCT | 76560 |
| GCAGCAGGAA ACTGGGGACA TTCTTCCAGC TTCAGTGACT CATGAGAAAA TAATGTCCCA | 76620 |
| GTGGCTGATT GTGTGTGTGT GTGTGTTGT GTGAAAATAT ATATAACACT TAAGCATTAA | 76680 |
| ACCACTTTA AGTATATAGT TCAGTAGAAT TAAGTGCTTT TACATTGTTA CATTGTTGTG | 76740 |
| CAACCATCAC CATTCCCAC TCCAAACTGC AACTCAGTTT CATCTTCAT CTTCTAAACT | 76800 |
| GAAACTCACT ACCCATTAAA CAATAACTGT CCATTTCTG GTCTTGCCAA CACCTTGTAA | 76860 |
| CCACTATTTT ACTTCTGTC TCTATGAAC TAACTACTCC AGATGCCTTG TATAAGCAAA | 76920 |
| GTCTTACAAT ATTTGCCCTT TTGTTTCTGG CTTATTTGC TTGAATGTCT TCAAGGCTTG | 76980 |
| TCATGTAGTA GCGTGTGTCA GACTTCATT CTTGTTTATC CATTCATCCA TAGATGGACA | 77040 |
| TTTGGTTTAC TTCCACCTTT TGACCATACT TTCTTGACTC CAGGAGAAGG TACAGATTCA | 77100 |
| GAGACAAAAAA ATCCGGTCTG ACTTTAAGAA TCTCCAGTGT TTCCCTACATG AGGAAGAGAA | 77160 |
| GTCTTATCTC TGGAGGCTGG AGAAAGAAGA ACAACAGACT CTGAGTAGAC TGAGGGACTA | 77220 |
| TGAGGCTGGT CTGGGGCTGA AGAGCAATGA ACTCAAGAGC CACATCCTGG AACTGGAGGA | 77280 |
| AAAATGTCAG GGCTCAGCCC AGAAATTGCT GCAGGTGAGG CTGTGTACTT GGAGTAGGGA | 77340 |
| AAAAAGGTAT GTTATAGTGC TATTAAAGGA GAATGGTAAG GAAGCATGGG AAGATAAAAGT | 77400 |
| AATGTTCTT TTAGATGTAC ATCAGTGCCA TCAGGCTGGC CTTCACTAAT TTATAGGGTA | 77460 |
| CCTTTATGTC AATTAGAAAA ATAAACTTCT GAGGGAACAC AGCTTGGCCA AATGAAACCA | 77520 |
| CGGGATAACA TTTACCACTG TTTGCCTCCT TGGCCCATGT GCAGAGAACCTTG | 77580 |
| ACTCTCTCCT GAAATACTCC ACTAGGTGAC TGATGGGTGA TGAAAGTGGGG CAGCCAAAT | 77640 |
| GAGTGATAAC CTTTCCCTG ATTTGCTTGT AGAACCCCTTG CTCCAGAGCT GTTATGGTAC | 77700 |
| AATCTACAGC TTTATCTGTA GGAAGATAAA CATCTGGAGC CATTAATTCT GGTTCTAACT | 77760 |
| ACAGGATTG GTGACTATAC TGTAAGGCTG AGTGTATAGC ATGATTGCTT TACCACTGTG | 77820 |
| TGATACCTGC TACCACCATC TTAGTGGCAG TGGCCAGTC TCAGGGCTGT GCACAGATTG | 77880 |
| ACCACTAAGG ACCTTTATGA TAAAGTGTCT CTAATCTGGG CTCACTGTGA AGGAAATCCG | 77940 |
| ATCACCAAAA GCTAGTCCTT ACAGAGGGAG CATGGACAAA GCTCCTGGCC CTCAGACTTC | 78000 |
| AGCAAGGATG AGAATAGATG CAAATGTTGA TAAACATCCT GCCATGCTGA ATCTCCCAGA | 78060 |
| AGCTGGTAGG AATTATTCCA TCTGGGTATC CATCAAATACC TAAGACTGGT GGGAAATTACT | 78120 |
| TTGTTTGAGT ATCCATCAAT ATCTAAGACT AAGACTAGGG TAACTCTCTT TACCTCTTCG | 78180 |
| GGTAAAGCAA AGAAGAATAG CCCTGCATGA CAAGCCCCAT GAAATACCGA TGTTCCCATG | 78240 |

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| CTCACCTTT | CTTTTGT | CTTTATAGAA | TGTGAATGAC | ACTTGAGCA | GGTAAGTCCT | 78300 |
| GTTTGAATGC | AGGAGGGGAG | GGGTGTGCGT | ATATAGAAAT | GAATGGAATG | CACCTCTGAA | 78360 |
| GAAATCTCTC | GCCTCTGCTT | ATTCTAGGAG | TTGGGCTGTG | AAGCTGGAAA | CATCAGAGGC | 78420 |
| TGTCTCCTTG | GAACCCATA | CTATGTGCAA | TGTTCCAAG | CTTTACTTCG | ATGTGAAGAA | 78480 |
| AATGTTAAGG | AGTCATCAAG | GTATGTCAC | TAAAGAATT | CTGAATACTG | TGGATAGAAG | 78540 |
| GGGCCTTATG | CAGTAACCAA | GTTCACCACC | TGTCCCTTGG | CAGGCTCACA | GCCAGAGAGG | 78600 |
| TTGTTTAGTT | AATTCAGTA | GAGCTTCAT | ACTTCCTCTA | GTTAGTATGA | TTCACTGCTC | 78660 |
| AGTGAATGTG | ATGAGCATTG | CATTCTGGTT | ATCTGTGCAA | ACCTTCAAA | TTCTTATTCT | 78720 |
| TTCACCTATT | AGCCATGTTA | CTCCAAGTGA | CTTGGTTCC | CCCTCTGAAA | AATGAAAATA | 78780 |
| TTAACAGCTC | CTACTTCATT | GAGTTATCAT | CAAATTAAA | TGCATCAACA | TGTACAAAGT | 78840 |
| GCTTAGCCCT | GTGACTGACA | CATGATCATA | ATAGCACATC | ATGGTATTAG | ATCTGATCAT | 78900 |
| AGTGTATT | ATCAATAGCT | CAGCCAAC | TTAGAGCAAT | GCAAGAAAAG | TAGGTGAGTA | 78960 |
| TGATAACCTA | TCATTACAT | ATTTAGGAA | CTTGACTTAG | ATAACACAGA | TGACAAATGT | 79020 |
| TACAACCAAT | TTACAGATT | CAAATGTTA | GAACCATT | CTGAGTTCC | TGCTCCCTG | 79080 |
| ATTTTTAAA | TCAGTGCTGA | CTATACTTC | ACAAATTGT | ATCCGTAAGT | ACAAAATCAA | 79140 |
| AAAAACCCCT | GAAAATGGAA | AGTTTATCA | TGATTCAATT | GGCTACAAAA | ATCTGGCCTA | 79200 |
| ACCTGAAATG | ATTTGGTGGT | TATATTAGTT | ATCTATTAGT | ACAAACAAAT | TACCATATT | 79260 |
| TAGAACCTTA | ATACAACACT | GATATGTTAT | CTCAATT | GTGGTTCA | GGGAAATGGC | 79320 |
| CAGCTTAGTT | GGGCCTGCTG | CTTAGGGTCT | GATAAGGCTG | CAGTTAAGGT | GTTGGTCAGG | 79380 |
| CTGTGTTCTT | ATCTGGAGGC | TAGGCTAAGG | AAGAATCCAC | TTCCAAGCTC | ACTGAGGTAG | 79440 |
| CAGGCAGAAT | TTCTTCCTG | ATGGTTGCAG | GACTTGGCC | CTGGTTATT | CTGGCTGTTG | 79500 |
| GCTGGAGGTT | GCCCACAGCT | TCTACAGGCC | ACCCCTCAGC | TCTTGACACA | TGGGCTTCTA | 79560 |
| ACATGGCCAG | TTATTCTTC | AGAGAGAGCT | CAGGAGACAG | ACTCTTACA | GAAAATCTGC | 79620 |
| CAGCAAGATG | GAGTCTTACA | TAATGAAACG | TAATCATAGA | AATTATATCC | CATCATCTT | 79680 |
| GCCATATCCT | ATTGGTCAGA | AGCAATT | AAGCCCTGCT | CACACTCAA | GACAAGGAAT | 79740 |
| TTTACGAGGG | TGTGAACACC | AAGAGGCAGG | AATCATAGAA | GGCCACCCT | GAGTCTGCT | 79800 |
| TCCACAGTGG | CCAACCCTGA | ACGGCACTGA | GATGAGACTA | TTTAAAAGTC | TTTATTTC | 79860 |
| CCACTTAATT | TGAATAATG | TTTGCTGCA | GATATATTGA | TGAATTGAT | TACAGGGCTC | 79920 |
| TGCCTTAGGC | CATGATGGGG | TTGAACCTTA | GAGTATATGC | ATTTTTTGC | CTTTATAACT | 79980 |
| TCTAAACTAA | TTTGAATGGC | AAAGCCCATT | TTGTTCCAGG | GATTCAGAA | AAGGAATTAT | 80040 |
| AGACCTGTGT | TCCCCCTCAA | TACACAACAA | CAAACAACAA | CAAAACCCAA | AAGCACTCTG | 80100 |

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| TATTTCATCC TATAACAGATG ACAGGAAGGA AGAACAAAGAC TTTGTGTAAG TTTTGCTGGG | 80160 |
| ATTTCACTGA GTCAATTGC CTACTCTCAT CTTTTACAGA AGGAATCATA ATATGGTTCA | 80220 |
| AGTGAAACTA TTTCTTCCTT TCTTTCTTC TTTTTTTTT TTTTGAGAC AGAGTCTCGC | 80280 |
| TCTGTCGCC AGGCTGGAGT GCAGTGGTGC GATCTGGCT CACTGCAAGC TCCGCCTCC | 80340 |
| GGGTCAAGTG AAACATTTTC TTAAATGGGC TTATCTTTA ACTAAATATT TCTCCCCCTCT | 80400 |
| TAAACACTGT TTATTAAAAT TTTCTTTT TCAAATTTT TTTTGAGATG GAGTCTCGCT | 80460 |
| GTTACCCAGG CTGGCTTGCA GTGCCGCAAT CTCAGCTCAC TGCAAGCCTCT GCCTCCTGGG | 80520 |
| TTCCAGCGCC TCAGCCTCCC GGGTAGCGTG GGATTACAGG TACGCACCAC TATGCCTGGC | 80580 |
| TGATTTTGT ATTTTAGTA GAGATGGGGT TTCACAATGT TGGCCAGGCT GGTCTCAAAC | 80640 |
| CCCTGACCTC AGGTGATCTG CCTGTCTCTG CCTCCCAAAG TGCTAGGATT ACAAGTGTAA | 80700 |
| GTCACTGTGC CCAGCTTAT TACAAAAGTG ATAGGAATAA ATTTTATTAA TATTTTAA | 80760 |
| TGTATGTTA TTTTATTTA CATTGCCTTC AAGCAGATGC AACAAATACA TTTTAATCAG | 80820 |
| TCAAACAATA TAAAGGATAT AAGGAGAAAG TTCAAGGTTT TTCCCACCCG TCTCCAATCT | 80880 |
| GACTTCTCTA GGTAGGGTGA TCTATATCTT TCCCTAAGTT TGTACAAACG TAACATATAT | 80940 |
| ACACTGTCTC TTCTATGTTA CTCGTTACTT TTTATGTCTA ATATTCCATA AGAATATAAT | 81000 |
| AAATATATGT AACCATAATCC CTACTGATGG AGCTTCAGGC TGTTTTAGA ACTTAGTTAT | 81060 |
| TACAATGTTG CTACAATAAC TTTCTAGTCC ATGCATCCTT ATATCCTGGT GCTTCATTT | 81120 |
| CTTTTGGGAA CATACCCCAA ACTGGGATTG CCGAGGTTGT TGTTAATCTT AATATATGGT | 81180 |
| ACCATATTAC TTGACTCAA GTTGTAAACAT ACACTCCTAC CAGCACCAGG AATAATGACT | 81240 |
| CACATATACT GAGCACTCTT TAGTCTGTGA CAGATTAGAA AAGCTTACT TTTCTTGGTT | 81300 |
| CTTGTTTAT ATCACAGTCC TCTCTATATG GGGCATTAA GCTTTATAGA GGAGGAAATA | 81360 |
| TGACACAGAG AGGTTAGGTG AGTGTGTTAG GATCTCATAA CTAGAAGGTA GTCATAGAAA | 81420 |
| GAGTCTAGAG TCTAGAAACC ACTCTCTCAC CATTGCAA TGTGGCAGAA AATGCAAAGT | 81480 |
| TGTTATTTAC TTATCTCTT TAGACAGGGT CTCACTCTGT CACCCAGGCT GGAGTGCAAT | 81540 |
| GGCCCCATCA TGGCTCCCTG CAGCCTTAAA TTCCTGGGCT TAAGCAATCC TCCCACGTCA | 81600 |
| GCTTCCCCAG TAGCTGGGAC CACAGGCAAG CACTGCCACG TCTGGCTAAT TTTTAAAAAA | 81660 |
| TTTTTGTAG AAACACTATC TCTTTATTTT GTTCAGGCTG GTCTTGAACCT CCTGGGCTCA | 81720 |
| AGCAGTCCTC TCGCCTCGGC CTTCTAAAGT GTTGGGATTAA CAGGCATGAA CCACCATCTC | 81780 |
| CGGCCTGAAG TTTATTTAAT CCATTGCCTT GTGGACTGGG CATTGAAGTT GTGTGTAGTT | 81840 |
| GGGTTTTTTT GTTGTGTTG CTGTTGCAGA CAATACTACT GTGAACATTC TTATCCATGC | 81900 |
| TTCCTTGTGT CCCGTAAATG TTCCCTCCAG GGAGATACCT TGGAGTGACA TGCTGGTGTG | 81960 |

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| AGGGATGCAT ATCATAATT TACCAGATAC TACAGATCTT GAAATTGTC CAATTCTACC | 82020 |
| CCACAAGCAA TATAAGAGCT CTCACTCCTC CAAAACCCC TGAGTCTTTA CTTATATAAT | 82080 |
| TTATGATTTC GACAGTCTTA CAGATTAAA ATGGTACCTA ATTGTGTACT TAATTGTGC | 82140 |
| TTTTCTGATT TCACTAGTGA GATTGAGATT CTTTTGTAT GTCCATTAGC CCTTCAGGCC | 82200 |
| TCTGTGATT ACCCATGATT TACTGTGGTT TAATAATT TTATTGGGTC TTTCTTAT | 82260 |
| TGATTTATGG GAACTTATTA TAGCTGATAT CTTCTGGCAT GTGGATGGCA TTTGCATTT | 82320 |
| TCATCCTGTT TTTGATAAA TAGGGTTCA AAATTAAGTA GACACATT CCTCAAGGT | 82380 |
| CTGTGTCTT TATGTCCAAA GAGCTTAGTC ATCAGTGGC AGTGAATT TTACACCTAAT | 82440 |
| TAATTTATT AGCCCCGTGT GCTATGCCCTG TAGTCCAGC TACTGGGAG ACTAGGGCAG | 82500 |
| GAGGATCTCC TGAGCCCAGG AGTCGAGGC TGCACTAACG TATGATCACG CCACGTAC | 82560 |
| CAGCCTGGC AACAGAGCTA GACCCTGTCT ATTAAAGGAG GAGGCCGGT ACAGTGGCTT | 82620 |
| ACGCCTGTAA TCCCAGCACA TTGGGAGGCC GAGGCAGGAG GATCACTTGA GGGCAGGAGT | 82680 |
| TTGAGACCAG CCTGCCAGC ATTGTGAAAC CCTATCTCTA CTAAAAATAC AAAAATTAGC | 82740 |
| CAGGTGTGGT GGTGTGCACT TGCACTCCTA GCTACTCTGG AGGCTTAGGC AGAATTGCTT | 82800 |
| GAACCCAGAA GGCAGAGGTT GCAGTGAGCT GAGATTGTGC CACTGCAC TCAGCTTGAGC | 82860 |
| GACAGAGTAA GACTCCATCT CAAAAAAA AAGAAGAGAG ATGAAGGAGG AGGAGGAAGA | 82920 |
| GAAAGAGGTG GGGGAGGGGA AGGAAGAGAA AGAAGAAGAA AGGGACAAAA AAATTTAGCT | 82980 |
| GTCATTTTG CTCTGATAGC ATTATAATGA TGATGAAGAC AATTGCTAGG TTGGTGAGAG | 83040 |
| AAGGCTATAT ACACACCAGA ACTCTCCACG TATATGGCAA GTTCATATAT TTTGTTAAGT | 83100 |
| ATGTCTCATT GGAGACCTTC TTTTCCCGTA ACTATGACCA GTGCTCTGCC AGCTCAGTCA | 83160 |
| ACAACAAACAT TGCATGTTGG CTCCATACCT GGACTCTTGG TCCAATTGGT AATGAAACCA | 83220 |
| TCCCACCAGT GTCTTCATAA TATATATATA CACACACACA TATATATATA GTATTCTCTC | 83280 |
| CCAGTGTCTT CATAATATAT ATATATACAC ATACACACAT ATATTATATT CTCTCTATAC | 83340 |
| ATATTTATTT ATATATCTAT ATCTATATCC TTCCACCTCA GGTCTCCCTC TGTCTCCAG | 83400 |
| GCTGAGTGGT GCAGTAGTGC GATTATGGCT CAACCAATGA GAGGATCAAT GGCAATCCTC | 83460 |
| TCATTTCAAGC CTCCCCAGTA GCTGGGACTA CAGGCATGGG CCACACACATC TGGCTGATGT | 83520 |
| TTAAATTTT TTGAGACAGC ATCTCTATAT GCTATAGATA TATATAGTAT CCTCTCTCTA | 83580 |
| ATATGGATAG AGGATACTAT GTCTATATCT GTATCTATCT ATCTATGGAG AAGGAATACT | 83640 |
| ATATATCTAA TAAGATGTAA TCTATATTAT ATATAAAAGT GAAGCATTGA TTGGTACATA | 83700 |
| TAATATATAT ATTGATTACT GTGTGTATAT ATTTGTTTT TCGAGACAGG CTCTCACTCT | 83760 |
| GTTGCCAAG CCGAGTGGTA CAGTGGTGC ATCATGGCTC CACCACCTGA GCTAAAGTGA | 83820 |

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| TCTTCTCACCC | TCAGGCCTCCC | CAGTTGCTGG | GACTACAGGA | ACAGGCCACC | ATACCTGGCT | 83880 | | |
| AATTTTTTAA | TTTTTTTTTG | AGACAGGGTC | TCCCCTTGCC | ACCCAGGCTG | GAGTGCAC TG | 83940 | | |
| GCGCAATCTC | GACTCACTGC | AATCTCCACC | TCCCAGGCTC | AAGTGATCCT | CTCACCTCAG | 84000 | | |
| CTTCCCCGAGT | AGCTGGGACT | ATTGGTGTGC | ACCACAATGC | CTGGATAATT | TTTCATATTT | 84060 | | |
| TTTGTAGAGA | TGGAATTGG | CCATATTGAC | CAGGCTGGTC | TCAAACCTTT | GGACTCAAGT | 84120 | | |
| GATTGACCCG | CCTCAGCCTC | CCAACGTGCT | GGGATTACAG | GCATGAGTCA | CTGTGCCTGG | 84180 | | |
| CCTGATTATT | GTACACATTT | TTGATGTAAT | GTATTATATA | TGTCATATAT | GACAATCTAG | 84240 | | |
| ATGAATATAT | TAAAGATTGG | GTTCATTT | ATATATTGTA | AAATACATAC | ACTATACATA | 84300 | | |
| TATAATATGT | AGAACATATG | CTATACATAT | TATATATGTA | TATGTTAAC A | TATATAATAC | 84360 | | |
| ATACACATAT | AATATGTATA | GTTGCAAATA | TAAAATTGG | TTTGTATT | ATATTATTT | 84420 | | |
| GTGCAGGAGT | TCTATATCTA | TGTCTATAAG | CGGGAGCCAT | AATTTCTAT | TCTTG TAGG | 84480 | | |
| ATTTGGTATG | AGATTGGCAT | TACTCATGCC | TTGACTTCTA | AATTCCTAT | AAA ACTGACA | 84540 | | |
| AGTTCCATTT | TTGCTTGATA | AAGATGCACG | TTTATTATC | TGCGGTAAA | ATTAAAGTA | 84600 | | |
| GTGATTTCAT | TTCTTTAATG | TTAGGTCTGC | CCATGCTTA | TTTGT | TTT GAGT | 84660 | | |
| TACTCAGAAA | TATTTTTCT | AGGAAGTAAT | AATTTTATCA | GTACTTCAA | TTTATTAGT | 84720 | | |
| AGCATAAGAT | TTATTATAAA | GTTCTGTAAT | ATTTAAAAAG | TTCTGTATT | CATTCCATTT | 84780 | | |
| GTGCCTTCTG | TCTTACTTTG | ATAAAATCTCA | TTGGAGGTAT | GTCTATT | TTAAATTCT | 84840 | | |
| TTTAAAAGAA | GCTACCTTT | TTTTGTTTG | TTTTCCCTCT | TTATTGCATT | CTTGT | TTCT | 84900 | |
| TTAACCTCAC | TGTTATATTG | TTAATATCT | ATTTTTCTT | TTTAAAAAAT | TATATTGGC | 84960 | | |
| TTTCTATGTT | CTTTTAAAAA | TTTAAATTAG | ATGCTGGCT | CATTAATGTT | CAGCT | TTTA | 85020 | |
| ATTTTTCTAA | GATAAGCATT | TAAAGCCTAC | AAATTTCC | TAAAATTCTG | CTTAGCTTC | 85080 | | |
| ATTGTATATT | TTTATAAATA | ACTTTTATT | ATTGTTCCAT | TCTATACATC | TTCTAATGAC | 85140 | | |
| TTATTAGTAG | TTTACATTTC | CTAATATT | GAATCTTTT | AGTCATCTT | TTATTATTGG | 85200 | | |
| TTTATAATCT | TATATTGAGG | CTAGAGAAA | TGATCTGTGT | AATACAGATT | TATTGAAACT | 85260 | | |
| TGTTCAGACT | GT | TTTCTGCC | TAGTATTAC | TCAGTTAGTG | CATGTTCCAT | CTATACCTGA | 85320 | |
| GAAAAC | CTGCA | TAT | CTCTGC | TTACTATTAT | TAAACAATTG | CTGAGCTTA | TGTATTGACT | 85380 |
| ATGAGATTGC | GCTTCTT | AGA | TAGA | CTGAGCTT | TTGAGCTT | TGTATTGACT | 85440 | |
| GGTCTGCCTG | ATCTATCAAT | TATGGAAAGA | AGAATGTTAA | AACATCC | CAT GATGATTGTA | 85500 | | |
| GATTGTC | CA | TTTCTCCTAT | AATTCTACAA | TTTTGCTTT | GTATATTAAC | ACAATTCTAA | 85560 | |
| ACATGAATTC | ACTAATAATG | TAGTACATT | ATGTTAAAAA | TTGTGTTATC | TTTTTTAGGT | 85620 | | |
| GA | CTCCTT | TTT | TTTTTTTTT | TTTGAGACAG | AATCTCTC | TGTCACCCAG | 85680 | |

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| GCTGTAGTGT | AGTGGCGAAA | TCTCAGCTCA | CTGCAACCTC | TGCCTCCCCG | GTTCAAGTGA | 85740 |
| TTCTTGTGCT | TCAGCCTCCC | AAGTAGCTGG | GATTACAGGC | ATGTGCCACA | ATGCCAGCT | 85800 |
| AATTGTTGTA | TTTTGGTAG | AGCCAGGGTT | TTGCCATGTT | GGGCAGGCTG | GTCTTGAACT | 85860 |
| CCTGGCTTCA | AGTGATCCGC | CTGCCTGGC | CTCCCAAAGT | GCTGGGATTA | CAGGCATGAG | 85920 |
| CCACCACACC | TGGCCCTTCT | TCCATTCTTA | ATAATGCTCT | GACTTAATAT | CTTTTGATAT | 85980 |
| AATACTATAA | CAGTATATGA | CTATATTATC | TATCTTTAG | CTTCCAATCT | TTCTATATGT | 86040 |
| TTTTGTTGAT | GTGTCACACC | AATAGATAGG | TGGAATTTTA | AAAATCCAAT | TGATATTTTT | 86100 |
| TCTCTTAAGT | GGTATTACCA | CCCCGTAAAC | ATTTAATT | CTAACACATGG | GTTTCCTGG | 86160 |
| GTCATTCAAGG | TAATATGAAT | TGAAACCCCA | AACTCTGTG | AGTCAGGCTG | ATAAAAGCTA | 86220 |
| ACTGAATAGA | GTTGAAAAAA | GGAGGGTATT | TACAAAGGTG | AGGAGTTGGG | AAATCCACAA | 86280 |
| GBAACAGGAA | GCACCCAGAA | CTAGGAACAG | TTAGAGAGCC | ATCACCTCCT | CTGGGCCTCA | 86340 |
| AGTGGCAGGT | GTAGGGAGCT | GTAACTATAC | TAGAGTGTG | CCAGAGGCAG | AGGAATGCAG | 86400 |
| ACCCCTCCAAA | TCATAGCGTG | GGACTGGGTT | ACTGAATACT | CCCAAGGCTG | CTTCTTTGTG | 86460 |
| CCCTATGGTC | TCCTCTGGTG | CTTCCCATTG | GCTGAACCAA | GCCAGAGGGC | GGAAAGCCTG | 86520 |
| GTAAATCTGT | CCATGTCAGC | CTTCCTGGGC | ACAGAGCAAG | ACAGGGAAAA | GTGAGGGATT | 86580 |
| ATTTGGAAGA | ACAAACAGAG | AGCATCCAGC | ACAGGAAGTG | TTTCTGAATA | CTTGAATTCC | 86640 |
| TTAATTGTCA | CAGACCAACT | GATCAACATT | TAACTCAGTA | GCACAGTGGT | TTCCTTAACT | 86700 |
| CTCTTGTAG | AACATCCTAT | TACCATTTT | TATTTTAAA | ACTGCATACT | GTTCCAGTAT | 86760 |
| CTCACTTTAG | TTATCAGATC | TTTTCTGTC | TTGTTTGATT | CTAGTCTGAT | ATTTTCCAT | 86820 |
| GTTATATTGG | TCCTCCAGTG | TATTATTATC | TCATACTAAT | GCTTATGGAA | CATTATCTGA | 86880 |
| GGGGAAAGAG | AAGAGCTTAC | AATTAAAAGT | CATGGGACTA | GGCATGTGTC | ATGAGACCTG | 86940 |
| GGTCTTCCAA | TAACAAGCTA | AGACATTAGC | TGAGTCATTT | TCCCTCTCTG | ATTCTCAATG | 87000 |
| TTGGTGGTTA | TTCAGTAGAG | AAGGGAAAAG | GTATCTTCT | GCTCAACTGT | CTCATGATTC | 87060 |
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| CTGTGCCAAA | TGGTGGAGG | CTGCCCTGCC | GCACCACAAA | TCTAAGCCTA | GGGCATAAAA | 87360 |
| CCCCTTGTGG | CTTGGATGGA | ACCCAGGGCT | CAGGGCATAA | AACCCCTCAT | AGCCTCTGGA | 87420 |
| AAGTGCACAG | ACTTGTGTTGGT | TCCTTGCTTT | TCACTCATAA | ACGTGTCTC | TACTATCTCA | 87480 |
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| TGCCACATCT TTACTTTCCC GAAGGCTTCC TTCTCTGATA CTCTCCGGCC CTATTTCCAG | 88860 |
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| TGGACTGGGG CAAAGCAAGA TAATAGTGAT GATCGTATGT TGCTGTCTCC ATCCGTCTTT | 89160 |
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| GAAAGCTGCA ATTATCCGCC AACTGCATT AAAACAAAAC AAAACAGAAA AATCAAATA | 89340 |
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| TTGAAATATT TTAAAATCTC AGTAAATAGT TATTGCTGAA ATGGCTGTTG GCAGTTCTTA | 89640 |
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| GCCTCCCTAA CATTGTTAAA GCCTAGCATA TGCTGCTTAG AGGAAATTCT ATATCCCTAA | 91080 |
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| AAAAAAATGAA TAAAATAAAC CTGTGGAAAC TATAAGGAAG GCCAGAAGAA ATATAAAATT | 91200 |
| GGAGATTAAT TGGGGTGCAG GAAAGTTATG GAAAGAATAT AAGTCCTGCT AGATAAAATCA | 91260 |

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| TGGGAGGCTG AGATGGGAGG ATCACTTGAG GCTAGGAGTT TGAGACTAGC CTGGGCAAGC | 91560 |
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| TTTATGGCTG ATTTTTTTTT TAAGGAAAAG CAATTCATGT ACCCTTGAAG ATTAGATTAA | 91860 |
| GTTCTATAAA ATAGCCAAA ATGACAGTGG CTGAAACAAG TTTATTTATC TCCCATTAA | 91920 |
| AGCAAGTCTA GATGTGGAAG TCTGGGAAGC CCAGAAAATC CAGGTCTTGT TTGTGTATGG | 91980 |
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| ATTTAAACTG TCCTAGTCAA TGACCAAAAA AGAAAAGCCT ACAAAACTCAT TGATATAAAA | 92400 |
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| TAATCCAATT AACAGTCTTA GGTTGGCTG CTGAAACAAA ATACCACAGC CTGAGTGACT | 92520 |
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| TAACATTGAG AGCAAAATG TCCCCCACC ATAGACATCC AGCACCACAG TAGTACATTT | 92880 |
| ATTACAATTG AACTTACATT GACACGTCA TATCAACGAA AGTCTGTAAT TTACATTAGG | 92940 |
| GTTCATTCTT GGTGTTGTGC TTTCTATGGG TTTTGACAAA TGTATAATGT CATGTATTCA | 93000 |
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| TCACTGCAAC CTCCATCTCC CAGGTTCAAA CGATTCTCAT ATCTCAGCCT CCCGAGTAGC | 93840 |
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| TCATATGCAT ACTTGCATCT GTGTATCTTC TTTGGTGAAC AGATGTTCAAG GTCATTGCC | 94440 |
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| TTTCTGGTT | CATTACCAA | CTGGGTGAAA | GTGGGACCACT | GACACCATT | GTCTGGGCCT | 96540 |
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| AGTCTAGTCC | ACAGACATAA | AAGAAGTTCG | CTTGGAAAAA | GAATGGTTAT | CATCCTCGGA | 181440 |
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| ACCTCAAGTG | ATCTGCCCGC | CTCATCCTCC | CGAAGTGCTG | AGATTACAGG | TGTGAGGTAC | 187620 |
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| AAGATTCAA | ACTTCTATGA | CAGTAAAAGA | AATGTATATC | AAGTTCCCTTA | GGGCTGCCGT | 187800 |
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| CCAAATCTGG AAGATTTAAG AGAAATGATA GTTATCATTC TTTAAGTCCT TAGGAATATG | 222300 |
| CCTAGAGAGC TAATTCATA TGTTCAAGGA AAAAAGTGT ATTTTTCTC AACCTGTTGG | 222360 |
| ACCCCGTAA ACATACTATG ATCAACTGGC ATTTTCATAT CAAATAATTT ATGAAATTCT | 222420 |
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| TTTAGGAGCG TAAAGATGGT TATAAATAAA ATTTGTCAAA CAGCAGTAAA CACAGTGGTT | 222540 |
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| AATTATTACC ACTCTATAGG CTCAGGGTAG TTGAGTTGT CAAACTGTGA CTGAAAGACA | 222900 |
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| TGCCAACATA GTTTATGGTG AGAATCTGTT CCTGGCTAAC AGATGGCTGC CATCTCACTG | 235320 |
| TGTGTTGTA TGGTGTTC TTGGTGCCTG CGTGGAGAGA GAGCTCTAAG TGTCTCATCT | 235380 |
| TCTGTAAGGA CACCAGCCCC AATGGGATTA GGGCCCTATC CTGTGATCTT TAGTTTATG | 235440 |
| TACCCCCCTAA AGGCTCTATG TCCAAATGCA GTCACACTGG GGTTAGGGT TTTAATAAAT | 235500 |
| GAATTTGGG GGACACAGTT TAGTCCATAA CATTCTGTCC TTGACCTGCC AAAATGTATG | 235560 |
| TCCTTCTCCC ATACAAGATA AATTATTCC ATCCCAGCCG GGCATGGTGG CTCACACGTG | 235620 |
| TAATCCCAGC ACTTTGGAA GCCAAGGCAG GCGGATCAGA AGGTCAAGAG ATCGAGACCA | 235680 |
| TTCTGGCTAA CACGGTAAA CCCCATCTCT ACTAAAATAA AAAAAAAATT AGCCAGGCGT | 235740 |
| GGTGGCGGGC GCCTGTAGTC CCAGCTACTC TGGAGGCTGA GACATGAGAA TGGCATAAAC | 235800 |
| CCGGGAGGCA GAGCTTGCAG TGAGCCAAGA TGGTGCCTACT GCACTCCAGC CTGGCGACA | 235860 |
| GAGCTAGACT CCGTCTAAA AAAAAAAA AAATTATTCC ATCCAACAG CCCCTGAAA | 235920 |
| GTCTTAACTC ATTCTAGCAT CAATTCTAAA GTTCAAAGTG TCATCTAAA AATCATCTAA | 235980 |
| ATCAGGTTAC GGGTGAGGCT CAATGTGTGA TTCATCCAGA GACAAAATTC CTTCCAGCT | 236040 |
| TTGAACGTGT GAAACCAGAA ATGTTACATG CTTCTAAGGT ACAATGGTGA AACAGGCATA | 236100 |
| ATAGACATTC CCATTAGAAA ATGGAGAAAT AGGAAAGAAG GAAGGTGTAA TGTGTCCTAA | 236160 |
| TCAAGTCCAA AACCTGGCAA GGCAAATTCT GTTAGGTCTT AAGAAAAACC CTCTTGGCT | 236220 |
| TGATGCCCTG ATTTCCAGGC CCAGTGGTGT CTCAGTGTCA CCTCTGGCTC TGTAGTTGGC | 236280 |
| CTACTCCATC TGCCCTGCCT GAAGTCTCGG TCTTTCAGTT TGGTGGGTC CCACCCAGGC | 236340 |

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| AGCCATCTGT GAGAGACTCC CACACAGTTC TGCAGGGCAT CTTTGAAACA GGTAGAGTCA | 236400 |
| GCCTTGACTA CATGTTCCCA CCCCCACCCCT ATCCCATCTG TACTCTCTGA GTCTGACATC | 236460 |
| AAAGTGGCAG CCCTGGCGGC TCCTGCCTGT AATCCCAGCA CTTTGGGAGG CCAATGAGAA | 236520 |
| TGGATCACTG GAGGTCAGGA GTTCCAAACT AGCCTGGCCA ACATAGTGAA ACCCCATCTC | 236580 |
| TACTAAAAAT ACAAAAATTA GCTGGGCAAG TGGTGGCAGG AGCGCTACTC GGGAGGGTAC | 236640 |
| AGATTTAGAG CCTGTAATCC CAGCTACTTG GGAGTCTAAG GCAAGAGAAT CCCTTGAACC | 236700 |
| TGGGAGGTGG AGATTGCAGT GAGCTGAGAT CACACCATTG CCCTACAGCC TGGGTGACAG | 236760 |
| TGAGACTGCC TCAAGAAAAA ACAAAAGAGT CAGCCCTAGT GATCTTGAA GTTGCCTTG | 236820 |
| GTGGGTCAGT CTTTCCTTT CTTAAAGAAT AGTACACATT GACAGCCAGG TAGCTCTATG | 236880 |
| ATCCTGTTCT ATAGAATTCA AAAAGTCGAC AACCTTCTT TGTTCCCTTC TGTTTCTCT | 236940 |
| GCCTACGTTA GTTAAATTG GCAGTGTCTC TGCTGGATA ATCCCATCTC TCTTCCTGGC | 237000 |
| TTCTGCTGAG ATGGCTGATT AAATCCTTGG GTCACACCCA TTATCTCTT ATCAAATGGT | 237060 |
| TGTCAGGCT AGGCTCAGTG TTTCACGCCT GTAATCCCAA CACTTTGGGA GACTGAGGAG | 237120 |
| GGCAGATCAC TTGAGCTCAG GAGTTAGAGA CCAGCCTAGG CAACATGTCA AAACCCATC | 237180 |
| TCTATAAACCA ACAACAAAAA ATTAGCCAGG GTGTGGTGGT GCATACATGT AGTCCCAGCT | 237240 |
| ACTTAGGAGG CTGAGGTGGG AGGATTGCTT GAGCCTGAAG GCAAAGGTTG CACTGAAGT | 237300 |
| AGATTGTGCC ACTGCACTCC AGCCTGGATG ACATAGCCAG ACCCTGTCTC AAAAAACATA | 237360 |
| AAAATAAAAAA TAAAACCAAG AAAAAAAAAG AAAAAGAAAA CATTGTTCAA CCATACCTCT | 237420 |
| TCAAGAAAAA CTTTCTCAAT TTTTACAATA TAGATTGAGA AATCTATCCC AAATCTCCAA | 237480 |
| GTTCTGATTG TGTTTGCTT AAAAATCCT TCTTTATTTC GGCTCTTCC TCTCACATTT | 237540 |
| CACTTTAACGC AGTAAGGAGG ACCTAAATCA CACCTTCAAT ACTTTGCTTA GACATCTCTT | 237600 |
| CTGGTAAATA TCCAGTTTA CTGCTTATAA GTTCTTCCA GTAAACACTA CAGCGTAATT | 237660 |
| CAGCCAAGTT CTTGACACAT TGTAACAAAGA ACAGTGATT CTACAGTTTC CAATAACCTG | 237720 |
| TCCCTCATTT TCATCTGAGA CCTCACAAGA GTTGACTTTA ATGTCCATAT ATATATATTT | 237780 |
| TTTGTGTGTG TGTGGCGGGG GGAGTGGAGT CCTGCTCTGT ATCCCAGGCT GGAGTGCAGT | 237840 |
| GGTGTGATCT TGGGTCACTG CAACCTCCAC CCCCCGGGTT TAAGCGATTG TTCAGCCTCA | 237900 |
| GCCTCCCGAG TAGCTGGAC CACAGAAGCA CATCACCATG CCCAGCTAAT TTTTGTATTT | 237960 |
| TTAGTAGAGA CAGGGTTTCG CCATATTGGC CAGGCTGGTC TCAAACCTCCC GACCTCGTGA | 238020 |
| TCTGTGCCCT CAGCCTCCCA AAGTGCTGAG ATTACAGGCG TGAGCCACCA CGCCTGGCCT | 238080 |
| AAAGTCCATA TTTAACCAAG CATATTTAAT ATTCTATCCA TGATCGTTAT AAATCTAAGT | 238140 |
| TTCTATGAAA ATGGAAGCTT TCTGTCCAGC TCTCTTCCTT TCTGAGCCTT TGCCAGAATT | 238200 |

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|-------------|-------------|-------------|------------|------------|------------|--------|
| GCCTTTAATG | TCCATATTC | TTTCAATAGT | CCCTTCACAA | TTGGCTTTT | CTAGTATGAA | 238260 |
| CCTCAAACTC | TTCCAGCCTT | TACCCATCAC | CAATTCCAA | AGCCACTTCC | CCATGTTAG | 238320 |
| GTATTTGTTG | TTGCAGCATC | CCACGCCTGG | GTACCAAAAC | TTAGTCAGCT | TGGACTGCCA | 238380 |
| TAACAAAATA | CTACAGACTG | GTGGCTTAAA | CGATAGACAT | TTATTTCTA | ACAATTCTGC | 238440 |
| AGGCTGGAAA | TCTAAGATCC | AAGTTGCCAG | CATACTCAGT | TTCTGGTGAG | GATCTCTTCC | 238500 |
| TGGCTTAAAT | TATTCACAG | ACACCAGGCA | GATAACCATA | TCCATTCTT | CCTGTATTG | 238560 |
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| ATTAAGTATT | CACCTCAAAA | TGACCAGACT | ATACTATCCT | CTAAATTAA | GAAACTTGGA | 238680 |
| GCTTGGCTCT | GGTCCTAGT | CTTTGTTCTG | TCTCATTAAT | GGCTTCATCA | ATACTACGGT | 238740 |
| TCCAAAGACT | ATCTATATGC | AGTAAACTTC | CAATTAACTA | TCTCCAGCCT | GACTTTTT | 238800 |
| CTGAAATGCA | AATGTGTGTA | GCCACATT | CACTGACAT | CTCCATTAG | AACTCTAATA | 238860 |
| GGTCTTCAC | CCTAAACACT | TCCAAGACAC | AGGAATAAAC | GTGCTCCTTA | AGCCTGTTAT | 238920 |
| CCCTTCCAGT | TCTCCCCAGT | TCAATAACTG | ACACTACCAT | TTACTCAAAT | CAACATTCTA | 238980 |
| AGAGTGTAC | TTGCTACATT | TCCTTCATCT | CTACAAATCC | AAAGTATCTG | TGAGTCACGT | 239040 |
| CACCTACATA | TTCAATAACAT | GCAATAATT | ATTCTCCATA | CTCCTTACCA | TGACTTAAGG | 239100 |
| GCCCACACTAG | TGACCATCTC | TGGCCTCTGT | TCACCTCTTC | TGCTGTTCTC | CTTGCTGTT | 239160 |
| CCAGGCCACGC | TGGTCTCTT | TCACATCAAG | CAGCTAAGCT | CTGCCATT | AAGACATTAA | 239220 |
| ACTTCTTGGC | CTCAATCTCT | GAAATGCC | TTTGATTTT | CTTCTGGTGA | GCTCATTTC | 239280 |
| ACTCATCAGG | TCCCAGCTCT | GTTCAGACA | AGGCTATCTA | AAATAGACCT | ACCTAAATGG | 239340 |
| ATTAAAAATC | TGAGAAATATG | AAATAACAAA | TATCAGATGA | CATTTAGGA | GACCCTTTAT | 239400 |
| ATACCTCATT | TGTGTGTGTG | TGTGTGTGTG | TGTGTGTGTG | TGTGTGTTG | GAAATGGTGA | 239460 |
| TGGAGGGTGT | CATTGCTAAG | TGAGGAGGAA | ACACAAAAGC | CATCTAGGAA | AGGACACAGA | 239520 |
| CTAGATAGGT | CCAAAAGTGG | TTTAAGACAG | AATATATGTA | AAGAGAGTTA | TAGAAAGAGC | 239580 |
| AATAAGTTGG | GATAAAGGAT | TTCCAAAACA | TATACGGGT | TAGTAACCTC | AATTACAGG | 239640 |
| GACAAACTGC | AAAACGTTAG | TGAAAAGGCA | AACAACATAA | TATAAAAGAT | GATTAACCGG | 239700 |
| TATTTTATAT | CATGTATTAA | ATTCAATATGG | CCAATACATA | TGAAAAACAA | GAAACAAAAA | 239760 |
| ACCTTCCTAG | TAATTCAAAA | TTATGCATAT | TAATACAACA | AAGGGATACC | ACTTCTTTT | 239820 |
| TTTTTTTTT | TTTGAGACAG | AGTCTTGCTC | AGGTACCCAG | GCTGGAGTGT | AGTGGCATGA | 239880 |
| TCTCAACTCA | CTGCAACTTC | CACCCCCTGG | GTTCAAGCGA | TTCTCCTGCC | TCAGCCTCCC | 239940 |
| GAGTAGCTGG | GACTACAGGC | GCCTGCTACC | ACGCTCAGCT | AACTTTGTA | TTTTTATTAG | 240000 |
| AGATGGGGTT | TTACCATGTT | GGTTGGCCAG | GATGGTCTCG | GTCTCTTGAC | CTCGTGATCT | 240060 |

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|-------------|------------|-------------|-------------|-------------|------------|--------|
| GACGGCCTCA | GCCTCCAAA | GTGCTGTGAT | TACAGCGTG | AACCACTGCA | CCTGGCCTAA | 240120 |
| TTTTTGTATT | ATTAGTAGAG | ATGGGGTTTC | ACCATAATTGG | CCAGGCTGGT | GTCGAACTCC | 240180 |
| TCCTGACCTC | AGATGATCCA | CCCACTTCAG | GCTCCCAAAG | TGCTGGGATT | ACAGGCATGA | 240240 |
| GCCACTGTGC | CCAGCCTGGG | ATACCATTTC | TTACCTATGA | ATAGACAACC | ACTAAAGCCA | 240300 |
| GTATACTCAG | GACTGCAAAG | GATGAGGAAG | AATTGCCATT | GTCATATAGT | TTTCATAAAC | 240360 |
| TTTCCTGAC | AATGTCTATT | AAATTGTATT | AATAGACATT | TGGAAAGGGA | GAGTGTCAAC | 240420 |
| AATCTAGAAT | AAAGGCCCA | CTAGGTAAGG | TTACATATGT | AAGGACTCTT | TCAAAACTGT | 240480 |
| CACAAGAATT | CAGGTACGGT | GGCTCATGCC | TGTAATCCTA | GCATTTGGG | AGGCTGAGGC | 240540 |
| GGGTGGATCA | CTTGAGGTCA | GGGGTTGAG | ACCCGCCTGG | CCAACATGGT | TAAAACCTAT | 240600 |
| CTCTACTAAA | AATACAACGA | TTAGCCATGC | ATGGTGGCAC | ATGCCTGTAA | TCCCAGCTAC | 240660 |
| TCGGTAGCCT | GAGGCAGGAG | AATAGCTTGA | ACCCAAGAGG | CAGAGGTTAC | AGTGAGCCGA | 240720 |
| GATCGCACCA | CTCCAGCCTG | GGCAACAGAG | TGAGACTCCA | TCTCAAAACA | AAACAAAAAA | 240780 |
| ACTACTCAAA | ACTGTAATAA | GAAAAAAAAA | AACCTAATTA | TACATGTAAA | ACATTTAAAT | 240840 |
| AACTAAAATA | AGAATACTGT | TGACATAGTG | AGACATCCAT | TTATACTATG | GAATGTTATG | 240900 |
| CAGCTACCTG | AAACAATAAT | CCGGTGAAAC | AAAATCACAC | ACACAACGTGA | TGAGAGTAAA | 240960 |
| TAGAGAACCG | TATGGAAGAA | AACATACCAC | AGTAATTATC | TCAGATAGCT | GAAACTAAGT | 241020 |
| TGGTGCAAAA | GTAATTGTGG | TTCTTACCAT | TACTTCACT | GGCAAAAGCT | GCAATTACTT | 241080 |
| TTGTACCAAC | CTAATAGAAT | GGGGTGAGGA | GAGGTAAACC | TTTATAAACA | TCTCTGTGTG | 241140 |
| AACTGTTAAA | ATGAGCAAGT | ATATTTTTT | TAAAGTATAA | AGAGAGAAAA | AAGTAAACTT | 241200 |
| TCTCCATTTC | CCACCTCAAA | TTATGTTCTG | TCACTCATCC | TGTTTAGATT | CTTCAAATG | 241260 |
| CAGTTTGAAG | TTTTATTTAT | GAGATTCCCT | GTTGTTGCC | TCTTCCATT | AAACCTAGCT | 241320 |
| CCACAAAGTA | GGGACCTGAT | GTATTCAATTC | ACTGTTATAT | CCCAGCATCT | AGCAGAGGGC | 241380 |
| CTGACACTTA | GTGGGAACGC | AAGTATCTGG | TATATAAACC | AGAGAATAGA | TATTTTTTA | 241440 |
| GCCCAGAAAG | CTGTTCACT | GCACAGAGTG | TAATTATCTG | AATTCTATA | AAAATGTCTA | 241500 |
| TCTATAAAATC | ATTGTCATA | CATTACCTAC | TCACCTTACC | CAGCTACCAG | GAACACTATG | 241560 |
| AAGTTTTGAA | TTACACCCCA | TTTGTGTTCC | ACACTCTTAC | CATTTTCCCA | GTTCTGCAC | 241620 |
| TGACCTCTCC | AGACATCATG | TGTACTGATA | ATTCTAAGTT | GTCTAGATTG | TTAATTCTTT | 241680 |
| TAAGGGCCTG | TTCTCTGCTA | GCTGGCATCA | TGCATAAAAT | AATTCTCTT | AATATGCTCT | 241740 |
| GGGTCTAGGG | TTAATAGATG | TTTGCTTAAA | ATCATGGAAA | GAAAATGGTC | ACACAGCTGG | 241800 |
| TATGTGTGAT | CAAATTTGTG | CTGTTTCATC | CACTTAATGT | TTACTTTGTG | GTAATGGAAC | 241860 |
| CTCCCAGCTT | TTATTTTCCT | TCCTTCCTTC | CTTCCTTCCT | TCCTTCCTTC | CTTCCTTCCT | 241920 |

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(2) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /note= "Mbo I-S primer"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

CCTGATGCTC GAGTGAATT 20

(2) INFORMATION FOR SEQ ID NO:24:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: not relevant
 - (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

- (ix) FEATURE:
 - (A) NAME/KEY: misc_feature
 - (B) LOCATION: 1..20
 - (D) OTHER INFORMATION: /note= "vector-vector splicing"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

CGACCCAGCA ACCTGGAGAT 20

(2) INFORMATION FOR SEQ ID NO:25:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /note= "cryptic donor-1021"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

AGCTCGAGCG GCCGCTGCAG

20

(2) INFORMATION FOR SEQ ID NO:26:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /note= "cryptic donor-1134"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

AGACCCCCAAC CCACAAGAAG

20

(2) INFORMATION FOR SEQ ID NO:27:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /note= "MAP1"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

CGTTAGAACG CGGCTACAAT

20

(2) INFORMATION FOR SEQ ID NO:28:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /note= "MAP2"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

GCCGATTTCAT TAATGCAGGT

20

(2) INFORMATION FOR SEQ ID NO:29:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..20
- (D) OTHER INFORMATION: /note= "-21"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

CTGTAAAACG ACGGCCAGTC

20

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: cDNA

(ix) FEATURE:

- (A) NAME/KEY: misc_feature
- (B) LOCATION: 1..19
- (D) OTHER INFORMATION: /note= "REV"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

GCAGGAAACA GCTATGACC

19

(2) INFORMATION FOR SEQ ID NO:31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 20 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: not relevant
- (D) TOPOLOGY: not relevant

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Peptide
- (B) LOCATION: 3
- (D) OTHER INFORMATION: /note= "may be I or V"

(ix) FEATURE:

- (A) NAME/KEY: Peptide
- (B) LOCATION: 5
- (D) OTHER INFORMATION: /note= "X is 11-30 peptides long"

(ix) FEATURE:

- (A) NAME/KEY: Peptide
- (B) LOCATION: 10
- (D) OTHER INFORMATION: /note= "may be F, I or L"

(ix) FEATURE:

- (A) NAME/KEY: Peptide
- (B) LOCATION: 15
- (D) OTHER INFORMATION: /note= "may be I, L or M"

(ix) FEATURE:

- (A) NAME/KEY: Peptide
- (B) LOCATION: 16
- (D) OTHER INFORMATION: /note= "X is 10-18 peptides long"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Cys | Xaa | Xaa | Cys | Xaa | Cys | Xaa | His | Xaa | Xaa | Cys | Xaa | Xaa | Cys | Xaa | Xaa |
| 1 | | | | | | | | | | | | | | | 15 |

| | | | |
|-----|-----|-----|-----|
| Cys | Pro | Xaa | Cys |
| | | | 20 |